

Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Mohammad Reza Jian Najar

APPLICANT PROFILE

General Applicant Information

First Name: Mohammad Reza

Middle Name:

Last Name: Jian Najar

Previous Last Name(s):

Primary Email Address: rjiannajar@gmail.com

Alternate Email Address 1: mjiannaj@gmu.edu

Alternate Email Address 2:

ORCID: [0000-0003-4174-6127](https://orcid.org/0000-0003-4174-6127)

Current Address

Primary Phone Number: 571-262-9065

Alternate Phone Number:

Citizenship/Languages/Eligibility Information

I will be 18 years of age or older by the time the internship begins: Yes

Are you a U.S. Citizen? Yes

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EDUCATIONAL BACKGROUND

Academic Information

Are you currently attending a community college or 2-year college?

No

Current academic status:

Junior

If you are selected as a participant in this DOE program, will you receive academic credit from your university/college for participating?

No

Undergraduate Institution Information

College/University Country: United States and U.S. Territories

College/University State/Province/Territory: Virginia

College/University Name: George Mason University

College/University Address: 4400 University Dr

College/University City: Fairfax

College/University Zip Code: 22030-4444

Expected/Declared Major: Physical Sciences - Physics

Minor and/or Concentration Expected/Declared: Physical Sciences - Physics - Theoretical and Mathematical Physics

Expected Degree From This College/University: Bachelor's

Expected/Completed Graduation Date: May / 2024

Transcript: Academic Transcript.pdf

Does this institution provide grades? Yes

GPA Scale: 4.0

Total Attempted Credits: 51.00

Total Earned Credits: 45.00

Total Quality Points: 162.34

GPA: 3.61

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Science, Technology, Engineering and Mathematics (STEM) Courses

Course Title: Analytic Geom and Calc II

Course Number: 114

Enrollment Status: Recently Completed

Course Title: Analytic Geom/Calculus III

Course Number: 213

Enrollment Status: Recently Completed

Course Title: Analytic Geometry/Calculus I

Course Number: 113

Enrollment Status: Recently Completed

Course Title: Elementary Differential Equat

Course Number: 214

Enrollment Status: Recently Completed

Course Title: General Chemistry I

Course Number: 211

Enrollment Status: Recently Completed

Course Title: General Chemistry I Lab

Course Number: 213

Enrollment Status: Recently Completed

Course Title: Intern Methods Exp Phys

Course Number: 325

Enrollment Status: Currently Enrolled

Course Title: Intro Biology II Lecture

Course Number: 107

Enrollment Status: Recently Completed

Course Title: Intro Comp Tech in Phys

Course Number: 251

Enrollment Status: Recently Completed

Course Title: Intro to Engineering

Course Number: 107

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Enrollment Status:	Recently Completed
Course Title:	Introduction to Astrophysics
Course Number:	210
Enrollment Status:	Currently Enrolled
Course Title:	Introductory Geology I
Course Number:	101
Enrollment Status:	Recently Completed
Course Title:	Matrix Algebra
Course Number:	203
Enrollment Status:	Recently Completed
Course Title:	University Physics I
Course Number:	160
Enrollment Status:	Recently Completed
Course Title:	University Physics I Lab
Course Number:	161
Enrollment Status:	Recently Completed
Course Title:	University Physics II
Course Number:	260
Enrollment Status:	Recently Completed
Course Title:	University Physics II Lab
Course Number:	261
Enrollment Status:	Recently Completed
Course Title:	Waves and Optics
Course Number:	312
Enrollment Status:	Currently Enrolled
Awards or Honors	
Award Title:	The National Society of Leadership and Success
Month & Year Received:	November / 2012
Awarding Institution:	George Mason University

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High School Graduation or GED

Date of High School Graduation or GED:	May / 2012
Country:	United States
City:	Sterling
State/Province/Territory:	VA



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WORK EXPERIENCE & SKILLS

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Work Experience	
Name of Place of Employment or Activity:	George Mason University
Dates of Employment or Activity:	From 8/23/2021 To Present
Hours Per Week:	40.0
Primary Duties:	The primary duties of a student are but are not limited to: attending each enrolled course and following its curriculum, actively engaging with professors and other collegiate colleagues, preparing the appropriate response to each assignment and/or activity before the announced deadlines, releasing completed projects to professors accordingly, and participating in periodic skill tests.
Tasks Performed:	Tasks performed are as follows: I attended the classes enrolled at George Mason University and prepared the appropriate response to each assignment and/or activity before its announced deadline. I also submitted completed projects to professors by the due date in addition to participating in periodic skill tests.
Name of Place of Employment or Activity:	Merritt Academy, Summer Camp
Dates of Employment or Activity:	From 5/1/2021 To 10/1/2021
Hours Per Week:	40.0
Primary Duties:	Upon arrival At the Merritt Academy, Students are greeted, and their belongings are received by teacher assistants. Medications, health conditions, and special instructions from parents are recorded at the drop-off, the students are then accompanied to their classes once check-in is completed. Each day, teacher assistants are assigned to assist inside a classroom.
Tasks Performed:	1 - Supervise behavior and ensure teacher-student engagement in maximizing independence and the development of cognitive ability. 2- Improve teacher-student relationships daily in providing effective emotional support, which is used to then, promote social engagement. 3- Guide through tasks such as eating and maintaining personal hygiene. 4- Ensure safety during playtime in the classroom, in the playground, and during nap time.
Name of Place of Employment or Activity:	George Mason University - Mason Enterprise Center Loudoun
Dates of Employment or Activity:	From 2/1/2021 To 5/1/2021
Hours Per Week:	10.0
Primary Duties:	1- Confirm student's personal information for the accuracy of data 2- Prepare each testing kit with the student's assigned testing number 3- Explain testing guidelines and procedures in order to obtain the desired testing quality and data accuracy.
Tasks Performed:	Mason's Safety, Emergency, and Enterprises Risk Management for disease prevention and to locate symptomatic students with COVID-19, asks students who live on or visit George Mason University's campus to participate in a COVID-19 surveillance testing. It was my duty to participate in receiving and testing operations.
Name of Place of Employment or Activity:	Virginia Department Of Transportation
Dates of Employment or Activity:	From 5/1/2019 To 1/1/2021
Hours Per Week:	40.0
Primary Duties:	1- Project financial reports 2- Construction project site reviews for compliance with VDOT's construction and safety regulations 3- Project financial reviews 4- Project Coordination
Tasks Performed:	The shared construction and maintenance programs between VDOT, local government, and Federal Highway Administration are reviewed for compliance by VDOT's local assistance department (LAP) for safety and construction regulations such as erosion control and work area protection laws. Duties of members of this government program include the preparation of project financial and progress reports, performing regular inspection

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	of the construction projects, periodic compliance reviews, and coordinating different government sectors to prepare for existing and upcoming construction projects.
Name of Place of Employment or Activity:	Virginia Department Of Transportation
Dates of Employment or Activity:	From 9/1/2018 To 5/1/2019
Hours Per Week:	40.0
Primary Duties:	1- Staffing expenditure management 2- Contractor billing reconciliation and invoicing 3- Office Management
Tasks Performed:	<p>State infrastructure maintenance and urban construction are the responsibilities of the Virginia Department of Transportation. My employment at VDOT's Burk Area Headquarter was centered on the preparation of bi-weekly financial reports such as:</p> <ul style="list-style-type: none"> • Employee costs • Rental equipment cost's • Office maintenance cost's • Equipment inventory and hours of utilization <p>The duties such as responding to emails, phone calls, updating the human resources database, and coordinating between management and contractors about upcoming contracts were also part of my daily tasks. At the conclusion of my employment, the program developed in Excel for the Burk Area Head Quarter's data management which provided the analyses of HQ's spending was repurposed to be used in all Northern Virginia VDOT Headquarters for record-keeping and account management. Upon completion of the employment contract, I was hired by VDOT's Local Assistance Department (LAP).</p>
Name of Place of Employment or Activity:	NXL Construction Services, Inc
Dates of Employment or Activity:	From 12/1/2017 To 9/1/2018
Hours Per Week:	40.0
Primary Duties:	1- Review each contractor's submitted documentation prior to sending it to VDOT for approval. 2- Communicate with the contractors for pricing and quantity agreements. 3- Perform project documentation reviews for auditors and data quality assurance programs.
Tasks Performed:	NXL Construction Services is a safety, regulation, and quality compliance assurance firm providing construction management services in various states and cities in the eastern region of the United States. My duties as a quality inspector employed by the above firm are but are not limited to, reviewing construction operations for compliance with prepared road and structure planes, reviewing construction site safety status, reviewing overall project management and performance according to VDOT's Road and Bridge construction specifications and standards.
Name of Place of Employment or Activity:	NA
Dates of Employment or Activity:	From 4/1/2015 To 12/1/2017
Hours Per Week:	40.0
Primary Duties:	During this period. I traveled to various Eastern, Western, and Northern States in the United States.
Tasks Performed:	Self-discovery
Name of Place of Employment or Activity:	CES Construction Services, LLC
Dates of Employment or Activity:	From 12/1/2013 To 4/1/2015
Hours Per Week:	40.0

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Primary Duties:	<p>VDOT's Road and Bridge Maintenance department:</p> <ol style="list-style-type: none"> 1- Perform data management according to Virginia Department of Transportation's guidelines 2- Provide actual project cost and expenditure reports for the purpose of budgeting 3- Communicate with the contractors for pricing and quantity reconciliation 4- Review project documentation for auditors and data management quality assurance programs. <p>VDOT's infrastructure department:</p> <ol style="list-style-type: none"> 1- Perform pavement structure inspection in preparation for future contracts. 2- Review ongoing contracts for the VDOT CQIP program.
Tasks Performed:	<p>CES Construction services is a construction management and quality assurance firm serving various regions in Virginia, providing consultation and inspection services for VDOT. My duties as a construction inspector for the above firm included: Construction operation inspection, safety compliance audits, and project record management. The inspected construction operations are Flexible Pavement Planning, Paving, and Pavement Marking.</p>
Name of Place of Employment or Activity:	EBA Engineering, Inc
Dates of Employment or Activity:	From 6/1/2013 To 12/1/2013
Hours Per Week:	40.0
Primary Duties:	<p>VDOT's Road and Bridge Maintenance Department:</p> <ol style="list-style-type: none"> 1- Perform data management according to Virginia Department of Transportation's guidelines. 2- Provide actual project cost and expenditure reports for the purpose of budgeting. 3- Perform pavement structure inspection in preparation for future contracts. 4- Review ongoing contracts for the VDOT CQIP program.
Tasks Performed:	<p>EBA Engineering, Inc is a construction quality assurance firm serving various regions in Virginia, providing inspection services for VDOT. My duties as a construction inspector trainee for the above firm included: Construction operation inspection, safety compliance audits, and project record management. The inspected construction operations are Flexible Pavement Planning, Paving, and Pavement Marking.</p>
Professional Associations	
Are you a member of any professional organizations?	No

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Computer Skills

Computer related skills:

The raw data generated in experiments may be more comprehensible if presented to the public through graphical representations. Numerous computer programs such as Excel allow the compilation of raw data in a homogenous data set which is later converted to graphs and charts. These graphs and charts may be used to study the fluctuation of magnitudes with growth or shrinkage rates represented by the Linear fit lines. I am able to use this data processing technique for various data types.

Examples of the ability to use this technique may be observed in programs engineered for academic or professional assignments. In the professional field, I have used this technique in the creation of an automated data collector which uses the above technique (after the rearrangement of input data) to generate the monthly spending behavior of an entity. Though Microsoft Excel may be used in the processing stages it cannot generate the data produced from a complex phenomenon.

The data generation steps such as solving 4th dimension(time) dependent equations and conditional calculations with exponentially propagative uncertainty may take place in host environments such as PYTHON. This computing program allows the simulation of real-life phenomena using initial data. The preliminary data input in a program written in PYTHON is used to produce micro data sets of various events accordingly.

Academically, I have used PYTHON creations to study the stellar and interstellar kinematic behavior of objects. An example of this ability is demonstrated in a research article where the fundamental causes of the orbital motion of a planet around another are explained. Various techniques such as Euler's iteration method, stacked conditional loops, array engineering, mathematical operations, and graphing procedures are used in preparing the article mentioned above. Data analyses and calculations in PYTHON programming software allow a reduction in uncertainty of calculation in large magnitudes. In this approach, the data generated during an experimental simulation may be calculated through various Euler methods. Therefore according to this method, data is compared to the theoretical value in each calculation step until the recalculated target data is within an acceptable range from its theoretical value.

Laboratory/Technical Skills

Experience with advanced laboratory techniques or equipment:

The accuracy of data generated during an experiment is greatly affected by the uncertainty of measurement. The range of difference in value from the theoretical data increases as the complexity of calculations increase. Amongst many methods of calculation of error in measurement, calculation of inaccuracy by Error Propagation method includes the effect of the uncertainty of measurement from each parameter involved in a particular experiment. The magnitude of inaccuracy calculated by error propagation is evaluated by the multiplication of the value of the partial derivative with respect to a particular parameter and its value of sigma. This deviation calculation method has been used in many of my academic and professional research projects to include the percent error in the final reported value. In addition to an emphasis on reporting the value difference in calculations of the theoretical and experimental data, the scientific method of report preparation is another necessary lab technique that must be possessed.

Academic publications are presented to the public by fact presentation, explanation of procedure implementation, and final data reporting through the scientific method of writing. This method, free of any literary modification of information for an artistic representation, provides raw and accurate data in chronological order. An article in a scientific journal must begin with a broad explanation of an area of research and gradually and with proper fact presentation conclude with a result. This result, numerical or conceptual, must explain the thesis, be supported by genuine data, and include the probability of inaccuracy of results. The effectiveness of a scientific journal is depended on the accuracy and the professionalism conveyed from the final submissions.

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PROGRAM INFORMATION

Eligibility

Have you previously participated in 2
SULI appointments? No

Previous DOE Internship/Fellowship Experience

Have you ever had an
internship/fellowship with the
Department of Energy or any of its
National Laboratories? No

Availability

What is the earliest date you can
begin your internship? 5/1/2022

When do you need to complete your
internship? 8/23/2022

First Choice Host DOE Laboratory

DOE Laboratory: Brookhaven National Laboratory (BNL)

First Choice Research Area: Nuclear Physics

Second Choice Research Area: High Energy Physics

Third Choice Research Area: Particle Astrophysics

Second Choice Host DOE Laboratory

DOE Laboratory: Thomas Jefferson National Accelerator Facility (TJNAF)

First Choice Research Area: High Energy Physics

Second Choice Research Area: Nuclear Physics

Third Choice Research Area: Accelerator Physics/Science

Relatives Employed at DOE Laboratories

Are you a relative of an employee at
the proposed host DOE laboratories? No

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ESSAYS

Research Experience:

A planet's motion in an interstellar medium of another star is evaluated by Kepler's laws of planetary motion, gravitational laws of masses, and Newton's laws of classical mechanics. As stars travel away from the coordinates of space-time singularity; they move relative to each other. Planets at a particular distance from the center of mass of another planet form an ellipsoidal path with the host planet at one of its foci. During this experiment, the trajectory of the motion of the Earth around the Sun is evaluated using python. This program allows the evaluation of the position and velocity of the Earth using Euler and Euler - Cromer methods.

The simulation program for the above phenomena was created and written in PYTHON by a group of 15 students. The fragments of an incomplete .py file were provided to this group by the instructor and they were asked to engineer a PYTHON program that can analyze and evaluate the planetary motion of stars. Each student then contributed to finding an efficient programming method as they individually discovered solutions to various segments of the scientific thesis of this project. The partnership of this group of students was extended to various online communication platforms to exchange data. The purpose of this research assignment was to recreate the planetary motion of stars using PYTHON programming software. The development of this program is contingent upon the calculation of acceleration due to the gravity of interstellar masses. The orbital motion data including the direction of motion and the magnitude of the velocity of these masses are calculated by integration of the relevant kinematics formulas.

The data generation and analyses stage of this research project required the possession of numerous computational and analogous evaluation skills. These analog evaluation techniques are but are not limited to the analogous Integration of classical kinematics formulas applicable to interstellar motion, analogous standard deviation incorporation into calculations, and data conversion to graph capabilities in various coordinate systems. The utilization of the above techniques to adhere to the scientific method of writing standards provided an opportunity for a rehearsal to improve research practices.

Research Interests:

Research on the particles inside a Proton allows a better understanding of the space-time singularity. The evidence proving the theories of Mr. Steven Hawking (8 January 1942 – 14 March 2018) and Professor Sr. Roger Penrose about the birth of the universe is uncovered by the generated data from facilities such as the Relativistic Heavy Ion Collider and Electron-Ion Collider at the Brookhaven Lab. The In-depth study of the expansion of the space-time singularity is further possible with the found Higgs Boson and other subatomic particles forming the nuclei of the proton. The astrophysical study of the nuclei of the space-time singularity and the study of the behavior of these nuclei after the expansion is performed through the study of the subatomic elements that exist in the nuclei of the space-time singularity.

Additionally, understanding the world of the particles that are found in the atom, provides the capability of gathering data about the nuclei present at the beginning of time. The discovery and categorization of these particles also occur at the ATLAS Experiment, Deep Underground Neutrino Experiment, and at the MicroBooNE where particles go under collision experiments and their trajectory after the separation from the nuclei is analyzed by detector systems such as the MicroBooNE. Other subatomic components such as the Quarks and the Pion are studied at the Jefferson Lab. Hadrons such as the Pion researched at this lab, carry similar key information about the nature of the universe and its beginning.

The research at the first and second choice Laboratories, the Brookhaven Lab and the

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Jefferson Lab, centered on distinctive qualities of subatomic particles allows the advancement in the vast field of Cosmology by providing the required information to recreate computerized models of the expansion of the space-time singularity which makes the return in time possible and allows the unlocking of the secret to the beginning of time and perhaps extending the humanities understanding of the universe beyond singularity borders.

Personal Experience:

At the beginning of Spring 2021, due to natural disasters and the recent outbreak of the Covid-19 pandemic, my part-time position at VDOT concluded with the elimination of the roll from the department. For the remainder of the Spring 2021 semester, I received unemployment assistance in addition to the bi-weekly revenues from part-time employment at George Mason University. During the summer session 2021, I returned to work full-time at the Merritt Academy while working at night as an Uber driver. Practicing caution and concentration, I excelled at the course attended and was invited to be inducted to the Sigma Alpha Pi Fraternity.

At the conclusion of the Fall 2021 semester, I had attended full-time at George Mason University, I had worked full time as a programs manager at a non-profit organization, and had completed the admission steps to Sigma Alpha Pie honor society. At the end of the Fall semester, the county of Prince William however, acquired KPWB dissolving my position as the programs manager of the firm. Therefore now, I am employed at Amazon as a driver associate and currently registered for the Spring semester 2022 with full-time status. Vigilance in maintaining overall biological and psychological health through the recent tragic unsettledness of my career and attending to hobbies despite these living conditions are the deriving factors in overcoming such life challenges.

Above, are brief statements, journaling the recent challenges in my personal life. Impacting my academic life, with a greatly fathomed reduction in comfort, stability, work-life balance, and concentration. Through the destitution of recent years, the existence of these qualities has become even more indispensable. The pursuit of these important and treasured qualities of life may be initiated by the recognition of the significance of excelling in higher education alone. With an emphasis on academia as the solution to all self-destructive behaviors of today's civilization, I contribute to SULI program the missing force from the young and striving rather than the old and the ripened to pursue knowledge. Stability, economic well-being, and overall health of American households are highly dependent on the cognizance resulting from the pursuit of higher education. These important and treasured qualities of life then are, achievable, and its hunt has become more necessary considering the recent events.

Professional Goals:

I have spent a little more than half of a decade exploring engineering, however developing cosmological theories using photon, cosmic wave, and cosmic quantum analysis characterizes my academic career. I am pursuing a bachelor's degree in Physics and Fine Arts as a member of the Epsilon Alpha Pi Fraternity. I am a music composer, and my hobbies are rowing and skiing. My academic goal is to follow, confirm, and perhaps extend Sr. Roger Penrose's theories of time and space. I am currently pursuing a dual degree in Physics without a concentration and Fine Arts with a concentration on drawing at George Mason University.

The internship offered by the SULI program provides access to various fields of study where I will gain information about the specific data gathering procedures, experiments, and professional expectations. My goal is to use my previous exposure to roadway construction quality management and project administration in a government setting to serve in my forthcoming roles with

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excellence. The SULI program, if privileged to be selected as a participant, provides the opportunity to use my previous expertise and my current knowledge of physics in a new medium. Upon graduation from the mentioned undergraduate programs, I will use the Laboratory procedures learned during this internship to extend Sr. Roger Penrose's theories.

RECOMMENDATIONS

Recommendation 1: **First Name:** Edward
Last Name: Knoeckel
Email: eknoecke@gmu.edu
Status: Received 1/6/2022

Recommendation 2: **First Name:** Fernando
Last Name: Camelli
Email: fcamelli@gmu.edu
Status: Received 1/6/2022

Recommendation 3: **First Name:** John
Last Name: Orens
Email: jorens@gmu.edu
Status: Received 1/3/2022



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Academic Transcript

G00762346 Mohammad Reza Jian Najar

Jan 12, 2022 04:34 pm



This is not an official transcript. Courses which are in progress may also be included on this transcript.

[Transfer Credit](#) [Institution Credit](#) [Transcript Totals](#) [Courses in Progress](#)

Transcript Data

STUDENT INFORMATION

Name : Mohammad Reza Jian Najar

Curriculum Information

Current Program

Bachelor of Science

College: College of Science

Major: Physics

This is NOT an Official Transcript

TRANSFER CREDIT ACCEPTED BY INSTITUTION [-Top-](#)

**FA12-
SU13:** Virginia Tech

Subject	Course	Title	Grade	Credit Hours	Quality Points	R
CHEM	213	General Chemistry I Lab	T	1.000	0.00	
ENGH	----	English Elective	T	3.000	0.00	
ENGH	101	Composition	T	3.000	0.00	
GEOL	101	Introductory Geology I	T	4.000	0.00	
GOVT	132	Intro International Poli	T	3.000	0.00	

MATH	----	Mathematics Elective	T	3.000	0.00
MATH	203	Matrix Algebra	T	2.000	0.00
SOCI	101	Introductory Sociology	T	3.000	0.00
SOM	----	SOM Elective	T	2.000	0.00

Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
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Current Term:	24.000	0.000	24.000	0.000	0.00	0.00
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****Unofficial Transcript****

INSTITUTION CREDIT [-Top-](#)

Term: Fall 2018

Academic Standing: Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Quality Points	R
BIOL	107	UG	Intro Biology II Lecture	C	3.000	6.00	
CHEM	211	UG	General Chemistry I	C+	3.000	6.99	
ENGR	107	UG	Intro to Engineering	B-	2.000	5.34	
PHIL	253	UG	Philosophy and Literature	B	3.000	9.00	

Term Totals (Undergraduate)

Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
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Current Term:	11.000	11.000	11.000	11.000	27.33	2.48
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Cumulative:	11.000	11.000	11.000	11.000	27.33	2.48
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****Unofficial Transcript****

Term: Spring 2019

Academic Standing: Good Standing

Subject	Course	Level	Title	Grade	Credit Hours	Quality Points	R
ECON	103	UG	Microeconomic Principles	F	3.000	0.00	E
MATH	113	UG	Analytic Geometry/Calculus I	A	4.000	16.00	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	7.000	4.000	4.000	4.000	16.00	4.00
Cumulative:	18.000	15.000	15.000	15.000	43.33	2.89

****Unofficial Transcript****

Term: Fall 2019

Academic Standing: Good Standing

Subject Course Level Title				Grade	Credit Hours	Quality Points	R
ECON	103	UG	Microeconomic Principles	D	3.000	0.00	E

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	3.000	0.000	0.000	0.000	0.00	0.00
Cumulative:	21.000	15.000	15.000	15.000	43.33	2.89

****Unofficial Transcript****

Term: Fall 2020

Term Comments: An alternative grade mode
was available for selection
by students.

Academic Standing: Good Standing

Additional Standing: Dean's List

Subject Course Level Title				Grade	Credit Hours	Quality Points	R
MATH	114	UG	Analytic Geom and Calc II	A	4.000	16.00	
PHYS	160	UG	University Physics I	A	3.000	12.00	
PHYS	161	UG	University Physics I Lab	A	1.000	4.00	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	8.000	8.000	8.000	8.000	32.00	4.00
Cumulative:	29.000	23.000	23.000	23.000	75.33	3.28

****Unofficial Transcript******Term: Spring 2021**

Term Comments: An alternative grade mode
was available for selection
by students.

Academic Standing: Good Standing

Additional Standing: Dean's List

Subject Course Level Title				Grade	Credit Hours	Quality R Points	
MATH	213	UG	Analytic Geom/Calculus III	A+	3.000	12.00	
PHYS	260	UG	University Physics II	A+	3.000	12.00	
PHYS	261	UG	University Physics II Lab	A+	1.000	4.00	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	7.000	7.000	7.000	7.000	28.00	4.00
Cumulative:	36.000	30.000	30.000	30.000	103.33	3.44

****Unofficial Transcript******Term: Summer 2021**

Academic Standing: Good Standing

Subject Course Level Title				Grade	Credit Hours	Quality R Points	
ECON	103	UG	Microeconomic Principles	A	3.000	12.00	I

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	3.000	3.000	3.000	3.000	12.00	4.00
Cumulative:	39.000	33.000	33.000	33.000	115.33	3.49

****Unofficial Transcript******Term: Fall 2021**

Academic Standing: Good Standing

Additional Standing: Dean's List

Subject Course Level Title				Grade	Credit Hours	Quality R Points	
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HIST	100	UG	History of Western Civilizatin	A-	3.000	11.01	
MATH	214	UG	Elementary Differential Equat	A	3.000	12.00	
MUSI	301	UG	Music in Motion Pictures	A+	3.000	12.00	
PHYS	251	UG	Intro Comp Tech in Phys	A+	3.000	12.00	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current Term:	12.000	12.000	12.000	12.000	47.01	3.92
Cumulative:	51.000	45.000	45.000	45.000	162.34	3.61

****Unofficial Transcript******TRANSCRIPT TOTALS (UNDERGRADUATE)** [-Top-](#)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Total Institution:	51.000	45.000	45.000	45.000	162.34	3.61
Total Transfer:	24.000	0.000	24.000	0.000	0.00	0.00
Overall:	75.000	45.000	69.000	45.000	162.34	3.61

****Unofficial Transcript******COURSES IN PROGRESS** [-Top-](#)**Term: Spring 2022**

Subject	Course	Level	Title	Credit Hours
ASTR	210	UG	Introduction to Astrophysics	3.000
AVT	101	UG	New Majors Colloquium	1.000
AVT	104	UG	2D Design and Color	3.000
ENGH	302	UG	Advanced Comp (Natural Sci)	3.000
PHYS	312	UG	Waves and Optics	3.000
PHYS	325	UG	Interm Methods Exp Phys	3.000

****Unofficial Transcript****

RELEASE: 8.7.1

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SULI PROGRAM APPLICATION RECOMMENDATION FOR MOHAMMAD REZA JIAN NAJAR

Recommender Contact Information

- **First Name:** John
- **Last Name:** Orens
- **Title:** Professor
- **Department:** History
- **Institution/Organization:** George Mason University
- **Telephone:** 703-993-1250
- **Email:** jorens@gmu.edu

Applicant Information

Association

Describe your relationship to the applicant, including how long you've known the applicant, where, and in what capacity.

Mohammad Reza Jian Najjar was a student in my class on the history of western civilization at George Mason University in the Fall semester of 2021.

Applicant Comments

Please provide substantive comments about the applicant's education, training, aptitude, or promise relevant to the SULI program. Include any relevant additional detail or perspective regarding the applicant's research experience or equivalent experience on complex projects, including the level of independence or other factors that would contribute to the applicant's ability to make an excellent contribution to the SULI program.

Mohammad did extraordinarily well on every test in my class. His midterm paper was very thoughtful although Mohammad had difficulty expressing his ideas in clear English prose. His final paper, on the other hand, was excellent. The teaching assistant who worked with him on this second assignment was delighted and impressed by Mohammad's patience, diligence, enthusiasm, and insight. I have no firsthand knowledge of Mohammad's research experience in physics or engineering. But I can testify to his ability to understand complex ideas, his ability to think independently, and his determination. As you probably know, Mohammad is both a physics and a fine arts major, and is interested in cosmology, among other things. All this, I believe, is further evidence of his intelligence, curiosity and imagination. I am convinced that he would indeed make an excellent contribution to the SULI program, and I recommend him without hesitation.

Applicant Rating

In comparison to other undergraduate students, please rate the applicant relative to his/her peers on the following qualifications:

	Do Not Know	Below Average	Average	Above Average	Superior
Analytical and Mathematical	X				
Experimental Research	X				
Overall Academic					X
Initiative and Self Reliance					X
Motivation toward Scientific Career					X
Originality of Thought					X
Emotional Maturity					X
Ability to Work with Others					X
Potential for Leadership					X
Oral Communication Skills					X
Written Communication Skills			X		

SULI PROGRAM APPLICATION RECOMMENDATION FOR MOHAMMAD REZA JIAN NAJAR

Recommender Contact Information

- **First Name:** Fernando
- **Last Name:** Camelli
- **Title:** Associate Professor
- **Department:** Physics and Astronomy
- **Institution/Organization:** George Mason University
- **Telephone:** 703 993 4073
- **Email:** fcamelli@gmu.edu

Applicant Information

Association

Describe your relationship to the applicant, including how long you've known the applicant, where, and in what capacity.

I had the pleasure of instructing Mr. Reza Jian Najar during the Fall semester of 2021 in Introduction to Computer Techniques in Physics, PHYS 251, at George Mason University.

I know the applicant for six month.

Applicant Comments

Please provide substantive comments about the applicant's education, training, aptitude, or promise relevant to the SULI program. Include any relevant additional detail or perspective regarding the applicant's research experience or equivalent experience on complex projects, including the level of independence or other factors that would contribute to the applicant's ability to make an excellent contribution to the SULI program.

Mr. Najar consistently demonstrated excellence in his studies. His unwavering commitment to academics makes him stand apart from the many students I have taught in the past. Mr. Najar earned an A+ in PHYS 251. He has proven to be an enthusiastic student. The assignments and projects he submitted were very thorough, showing his complete understanding and application of the materials presented during the course. He is constantly challenging himself in academics.

I highly recommend without any reservations Mr. Najar for your program. He demonstrated an excellence in written communicative skills.

If I can provide any further information, I would be more than happy to assist. Please do not hesitate to contact me.

Applicant Rating

In comparison to other undergraduate students, please rate the applicant relative to his/her peers on the following qualifications:

	Do Not Know	Below Average	Average	Above Average	Superior
Analytical and Mathematical				X	
Experimental Research				X	
Overall Academic				X	
Initiative and Self Reliance				X	
Motivation toward Scientific Career				X	
Originality of Thought				X	
Emotional Maturity	X				
Ability to Work with Others	X				
Potential for Leadership	X				
Oral Communication Skills			X		
Written Communication Skills				X	