

EDUCATION

University of Nevada, Reno Expected MAY 2024
Master of Science in Mechanical Engineering | Emphasis: Dynamics & Control Systems

West Virginia University Institute of Technology (WVU Tech) – ABET Accreditation MAY 2022
Bachelor of Science in Mechanical Engineering | Summa Cum Laude (GPA: 3.9)
Minor in Mathematics

WORK EXPERIENCE

Graduate Research Assistant | University of Nevada, Reno JULY 2022 – Present

- Collaborate in the NASA ULI project to deliver trustworthy autonomy tools to help Advanced Air Mobility aircraft fly safely through complex airspace, typical of dense urban environments
- Assist Dr. Voulgaris and Postdoctoral Associates in the development of environments and new algorithms to be tested in the simulator and real robots

Tutor, Student Success Center | WVU Tech JAN 2020 – MAY 2022

- Assist students with engineering and mathematics classes
- Formulate solutions for a variety of skills levels

Resident Assistant | WVU Tech AUG 2021 – MAY 2022

- Mediate resident conflicts to deescalate situations before they become conduct issues
- Enforce resident life rules and policies to ensure a safe environment and avoid disturbances for all residents
- Plan and host interactive activities to build a community environment around institutional values
- Comply with a weekly schedule involving attendance to programs, meetings with residents to discuss their needs, and office hours to deliver mail and file paperwork on the hall condition and ongoing events

Engineering Junior Consultant | Alamo Solutions, LLC | Raleigh, NC JUN 2021 – AUG 2021

- Researched multiple industry methods to determine potential areas of improvement
- Analyzed methods to provide more efficient, effective, and cost-friendly solutions; technology reports
- Collaborated with management to learn additional skills to identify business locations within the US

Energy Department Intern | GreenIng-e | Granada, Spain DEC 2020 – FEB 2021

- Developed efficient designs of photovoltaic and thermal panels for national and international companies
- Engineered solutions for the redesign of over 15 projects
- Formulated electrical and thermodynamics calculations considering energy and profitability reports with an energy exploitation ratio of 88%
- Evaluated project budget reports with a value of over 250,000€ in French and Spanish to maximize profits and minimize environmental impact for customers and the company

Programming Department Intern | Solinsur. Factoría del Software | Granada, Spain JUNE 2019 – AUG 2019

- Gained experience in the programming department and computed with PHP and MySQL
- Assisted in establishing the customer support website interface reaching over 100 clients
- Developed advanced skills in business environment expectations

AWARDS, RECOGNITIONS & AFFILIATIONS

Winner - Presidential Leadership Award, WVU Tech MAY 2022

- Recognizes one senior of the Leonard C. Nelson College of Engineering & Sciences who earned high grades and played an important role in the improvement and development of the overall WVU Tech community

Finalist - 2022 Student Employee of the Year, West Virginia University (WVU) APRIL 2022

- Award that recognizes one outstanding student employee from all the WVU campuses

Winner – NFPA Vehicle Challenge, Teamwork Award, National Fluid Power Association APRIL 2022

Winner – Outstanding Contributions to Pi Tau Sigma Honor Society Chapter, Leonard C. Nelson College of Engineering and Sciences APRIL 2022

Engineering Honor Societies: President of **Pi Tau Sigma** and Secretary of **Tau Beta Pi** | **WVU Tech**

ASME Member

SEPT 2018 - Present

TECHNICAL SKILLS & CERTIFICATIONS

Software: Proficient with Microsoft Office, SolidWorks, ANSYS, MATLAB, AutoCAD, Mathcad, PHP, MySQL, VBA, PVsyst and ClickUp

Machining: lathe, milling, turning, arc welding, sawing, drilling, boring, CNC machines, GD&T, read and interpret mechanical drawings and electrical, pneumatic and hydraulic schematics

Language: Bilingual in Spanish and English, Intermediate in French

Professional Certificate in Electric Cars (Delft University of Technology) JAN 2022

OSHA Certificate in General Industry Safety and Health NOV 2018

LEADERSHIP POSITIONS

President, Fluid Power Club – WVU Tech MAY 2020 – MAY 2022

- Acted as team leader for a project with 5 members on the design of an ecofriendly bicycle powered by a human with the assistance of fluid power for the NFPA 2022 vehicle challenge national competition
- Coordinated multiple projects to achieve desired results
- Strengthened skills in manufacturing, budgeting and design
- Gained familiarity with the schematic of hydraulic, pneumatic and electric circuit models, manufacturing processes, solid mechanics, CAD and FEA

President, Pi Tau Sigma – WVU Tech APRIL 2021 – MAY 2022

- Met weekly with 15 other students to discuss club goals and visions
- Completed various small projects with team members

Scholar-Athlete, Men's Soccer Team – WVU Tech AUG 2018 – MAY 2022

- Collaborated with 34 members to build skills to win Conference Championship and play National NAIA Tournaments
- Practiced five times a week to strengthen forward position skills and attend 25-30 games per season
- Received Scholar-Athlete All Conference Diploma at the River States Conference in 2019, 2020, 2021 and 2022

Orientation Leader – WVU Tech AUG 2020 – SEPT 2020

- Conducted university campus tours and activities to orient new students to important campus locations
- Collaborated with a team of 15 to provide programming inline with the university's goals for orientation

PROFESSIONAL DEVELOPMENT

TU Delft – Delft, Netherlands

Professional Certificate in Electric Cars: Policy, Delft edX	DEC 2021 – JAN 2022
Professional Certificate in Electric Cars: Business, Delft edX	NOV 2021 – DEC 2021
Professional Certificate in Electric Cars: Technology, Delft edX	JULY 2021 – AUG 2021
Professional Certificate in Electric Cars: Introduction, Delft edX	JUNE 2021 – JULY 2021

Cornell University – Ithaca, New York

Cornell edX: A Hands-on Introduction to Engineering Simulations.	MAY 2021 – JUNE 2021
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Massachusetts Institute of Technology – Cambridge, Massachusetts

Management in Engineering: Accounting and Planning, MITx MicroMasters	JUNE 2020 – AUG 2020
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CAREER ACHIEVEMENTS

Volunteer at **TEDx Talks Realejo**, 2019

Google Startup Battle: youngest contestant of the 2015 edition in Spain (15 years and 9 months)