

EDUCATION

Purdue University <i>Masters of Science in Computer Engineering</i> Concentration in <i>Innovative Technologies</i>	West Lafayette, IN	08/2023 – 12/2024
Purdue University <i>Bachelor of Science in Mechanical Engineering</i> Minor in <i>Economics</i> and in <i>Mathematics</i> Honors College	West Lafayette, IN GPA: 3.73/4.00	08/2019 – 05/2023

WORK EXPERIENCE

Development Intern <i>EDP Renewables</i>	06/2022 – 08/2022 & 06/2023 – 08/2023
<ul style="list-style-type: none">Processed parcel and tax data for 4 projects by analyzing county data and using CRM and GIS softwareComposed geographical maps using ArcGIS Pro to perform setback analysis on project constraintsCreated internal reports using PowerBI for information management and sharing on the company's project pipeline	
Teaching Assistant for Measurements and Control Systems I and II <i>Purdue University</i>	01/2022 – 12/2022
<ul style="list-style-type: none">Assisted students during lab sections for ME365 and ME375, troubleshooting issues on several experimentsTrained students in using MyRIO microprocessor with LabVIEW and graded related homeworkLed weekly meetings to assess progress and prepare for the following weeks' lab experiments	

RESEARCH AND PROJECT EXPERIENCE

Mechanical Work Holding Device	01/2023 - 05/2023
<ul style="list-style-type: none">Idealized and developed a two-link system capable of holding objects with 6 degrees of freedomProgrammed a control system to lock/unlock the arm's position using a Teensy microcontrollerFinal design was capable of holding 25lbs in any position within the device's reach	
Soccer Playing Autonomous Robot	08/2022 - 12/2022
<ul style="list-style-type: none">Conceptualized, designed, and built a soccer-playing robot capable of sensing, acquiring, aiming, and shooting a ballDeveloped the Finite State Machine to control the robot using Arduino interface and PythonFinal design was capable of accurately shooting a ball into a goal 10ft away over 80% of the time	

LEADERSHIP AND EXTRA-CURRICULARS

Honors Mentor Program Council Member (HMPC)	05/2021 – 12/2022
<ul style="list-style-type: none">Programmed organization's major events by communicating and collaborating with vendors, university officials, and presentersOrganized recruitment and planned team building activities and workshops on areas of leadership developmentExpanded the program from 99 to 146 mentors in a single academic year to accommodate an increase in incoming students	
Purdue Mechanical Engineering Ambassadors (PMEA)	11/2021 – 05/2023
<ul style="list-style-type: none">Promoted social, academic, and professional events and provided campus tours to incoming students as part of a 6-person teamCoordinated online engagement and extended social presence as Public Relations Committee Chair for Fall 2022Directed a class where students learn about topics related to Mechanical Engineering to instill curiosity and excitement	

RECENT PROJECTS

Aqua Check - MS Project	09/2023 – 05/2024
<ul style="list-style-type: none">Develop a non-invasive wearable hydration monitoring sensor with a focus on user experience	
Shine On University - Website Development - Consulting	09/2023 – 12/2023
<ul style="list-style-type: none">Develop a website for Shine On University integrating a scheduling system and an online store front	

SKILLS

Skills					
• Programming Languages	C	Python	LabVIEW	Matlab	LaTeX
• Software Tools	CATIA	Fusion 360	ArcGIS	MS Office	
• Languages	English	Portuguese	Spanish		