Delia Jasper

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EDUCATION

Worcester Polytechnic Institute (WPI) **GPA: 3.75, Expected Graduation: May 2027**
BS, Electrical and Computer Engineering & Robotics Engineering Worcester, MA

TECHNICAL SKILLS

- **Software:** SolidWorks, Onshape, KiCad, LTspice, AutoCAD, Blender, FMX, Vectorworks, Figma
- **Programming Languages**: Java, C++, C, Verilog, Python, MATLAB, TypeScript, HTML, CSS, SQL

RELEVANT EXPERIENCE

WPI Robotics Engineering Department **August 2025 – Present**
Student Assistant Worcester, MA

- Assisted the Professor in facilitating lab sessions for WPI's Introduction to Robotics course
- Guided students through homework and lab related questions involving troubleshooting Python code, basic electrical and mechanical engineering concepts, and physics
- Encouraged student growth and development of technical and interpersonal skills

Notre Dame Academy **August 2022 – Present, Seasonal**
Assistant Facilities Manager/Project Specialist Hingham, MA

- Arranged repairs, managed renovation projects, and performed basic service for a 68-acre campus under the direction of the Facilities Manager
- Provided technical support to customers via phone, email, and remote access; provided hardware support to laptops, wireless APs, iPads, iPhones, etc.
- Aided in reconfiguring and managing an over 600-user network during setup and launch
- Skillfully installed electrical wiring and fixtures such as duplex outlets, VoIP phones, and CAT 5e jacks

Jasper IT Services **January 2021 – Present**
Apprentice Electrician/IT Support Rockland, MA

- Provided network and server installation and maintenance services for multiple 50+ employee companies
- Spearheaded projects such as large-scale computer user setup and full-office network port installation

PROJECTS

Class Project: Robotic Navigation with End Effector: WPI, RBE 2002 **October 2025 – December 2025**

- Used concepts such as forward/inverse kinematics, sensor fusion with a gyroscope and accelerometer via a complementary filter, and computer vision to develop C++ code which allowed a robot to navigate a field to find a specific object and lift it off the ground.

Class Project: FPGA Four-Function Calculator: WPI, ECE 2029 **October 2025 – December 2025**

- Implemented a Verilog-based four-bit input calculator, using clock synchronized FSM control and combinational and sequential arithmetic modules to drive a virtual LED display presenting multi-digit results.

Extracurricular Project: Fufu Pot: Northeastern University, Generate **January 2024 – May 2024**

- Developed a water pumping and dispensing system in a confined space on a Stand-Mixer-like device
- Contribute to a final technical report which detailed the process of ideation, creation, and presentation
- Used skills such as CAD, design, and 3D printing to assemble a product with a sub team of 3-5 people
- Communicated with a team of 13 people to create subsystems for a larger project based on a client's wants

ACTIVITIES

Rho Beta Epsilon, Robotics Engineering Honors Society, Initiated Member | WPI | February 2026 – Present
Lens and Lights, Active Member | WPI | August 2024 – Present
VOX Musical Theatre, Active Member, Past Treasurer | WPI | July 2024 – Present
Alpha Gamma Delta, Zeta-Zeta, Initiated Member, WPI, April 2025 – Present