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## **OBJECTIVE**

A full-time job in the field of Computer Engineering, related to engineering design or emerging technology.

## **EDUCATION**

**Worcester Polytechnic Institute (WPI), Worcester, MA**  
B.S. in Electrical and Computer Engineering, Minor in Business

**Graduated with High Distinction, Dec. 2020**  
**GPA: 3.68**

## **WORK EXPERIENCE**

**Machine Vision Engineer, Spec-Rite, Remote from Worcester, MA** **Jun. - Dec. 2020**

- Utilized OpenCV to identify and assess painted road marking quality from images in real-time
- Implemented a custom algorithm to perform a qualitative assessment of the road markings
- Identified important aspects of the assessment and created a rating system for the road marking quality

**Engineering Consultant, Spec-Rite, Potsdam, NY** **May - Aug. 2019**

- Designed experiments to determine optimal environment for capturing high quality images of runway markings
- Utilized computer vision techniques on acquired images to determine marking characteristics and quality
- Proposed full-scale, real-time, system to capture images of runway markings for assessment

**Integrated Test Engineering Intern, BAE Systems, Nashua, NH** **May - Aug. 2018**

- Created project test roadmaps of multiple product's manufacturing and testing processes
- Collaborated with senior engineers to design and integrate fixes to factory floor test stations

**Underwater LIDAR Research, Clarkson University** **May - Oct. 2016**

- Built an underwater, surface-controlled robot, analyzed build issues, and implemented design changes
- Brainstormed and implemented ideas for an externally mounted, scanning LIDAR system

## **PROJECT EXPERIENCE**

**RoboPuppet for Teleoperation, Major Qualifying Project, WPI** **Aug. - Dec. 2020**

- Designed a robotic puppet arm to remotely control the Kinova Gen3 Arm in high-risk medical environments
- Manufactured, built, and tested the designed arm using a ROS simulation to evaluate the control accuracy
- Created a custom GUI for further simulation control and movement information

**Campus Safety Smartphone App, WPI** **Oct. - Dec 2019**

- Developed and tested a smartphone app to allow students to report safety hazards directly to campus police
- Presented and demonstrated the application at the course's I&E Competition and was awarded 1st place

**Interactive Qualifying Project, WPI** **Aug. - Oct. 2019**

- Developed and tested a smartphone app to record the movement of visitors in Glacier National Park (GNP)
- Analyzed GPS data to determine visitor trends within GNP in order to propose solutions to congestion issues

## **SKILLS**

- |                      |          |               |              |
|----------------------|----------|---------------|--------------|
| - Computer Vision    | - Python | - HDL/Verilog | - MATLAB     |
| - Embedded Computing | - C/C++  | - Java        | - Multisim   |
| - Linux              | - OpenCV | - ROS         | - SolidWorks |

## **CAMPUS INVOLVEMENT**

- |                                                                             |                            |
|-----------------------------------------------------------------------------|----------------------------|
| - Vice President, Treasurer, IEEE Student Branch, WPI                       | - Symphonic Orchestra, WPI |
| - Vice President, Recruitment Chair, Sigma Pi Fraternity International, WPI | - Cycling Club, WPI        |

## **HONORS**

- WPI Presidential Scholarship, WPI Deans List, Clarkson University Presidential Scholarship, Clarkson University Presidential Scholar, High School Valedictorian