Matthew Martin
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OBJECTIVE

Undergraduate student seeking a summer 2021 internship with a specialization in software development

EDUCATION

University of Michigan   **Ann Arbor, MI**
Bachelor of Science in Engineering, Computer Science   *Expected April 2023*
GPA: 3.92/4.00
Course work: EECS 280, EECS 203

Detroit Catholic Central High School   **Novi, MI**
High School Diploma   *May 2019*
GPA: 3.99/4.00

PROJECT EXPERIENCE

Michigan Mars Rover Project Team   **Ann Arbor, MI**
Computer Vision Sub-Team Member   *September 2019 – Present*
- Collaborating to develop onboard computer vision software using OpenCV for obstacle detection and autonomous rover collision avoidance using stereo camera
- Aided in designing AR Tag detection and interpretation to enable rover to autonomously traverse course using AR Tags as checkpoints
- Upgraded and standardized sub-team Linux development environment to allow access to expanded OpenCV libraries, that were leveraged for AR Tag Detection

FIRST Robotics Team #5907   **Novi, MI**
Drive Coach, Operator   *September 2017 – May 2019*
- Operated the robot during competition to win the 2018 district championship
- Directed the actions of robot operators during competition to win the 2019 district championship
- Processed opposing teams' statistics based on scouting input in Tableau for developing winning match strategies

LEADERSHIP

Eagle Scout   **Northville, MI**
Senior Patrol Leader, Philmont Crew Leader   *Fall 2015 – Present*
- Planned and directed troop activities for campouts and weekly meetings
- Managed and led crew through a High Adventure 75-mile trek through the Rocky Mountains
- Organized and executed 3 robotics camps targeted at grade school students to promote awareness of STEM

FIRST Robotics Team #5907   **Novi, MI**
Team Captain   *September 2017 – May 2019*
- Orchestrated fundraising blitz that raised over $5000
- Coordinated sub-teams in determining optimal architecture for software, mechanical and electrical systems
- Led team meetings and design reviews to ensure good communication between sub-teams
- Assisted sub-teams in all areas for an average of 30 hours a week during the 6 week build process

SKILLS

Computer: **Mechanical:**
- Proficient: C++   - Developing: Welding, Mill, Lathe, Shopbot
- Developing: MATLAB, Java, HTML, Linux, Git

ACTIVITIES

Brazilian Jiu-Jitsu   *2014 – Present*
Catholic Campus Community   *September 2019 – Present*
Entrepreneur (Lawn Care)   *2016 – 2019*