

Jack Shelata

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Summary

Detail oriented computer science student with a variety of skills and interests. Avid learner and self-motivator excited to make an impact in the world of technology. Seeking to leverage leadership skills and proven hard work ethic to take ideas and turn them in to practical, working solutions.

Education

BACHELOR OF SCIENCE IN ENGINEERING | APRIL 2020 | UNIVERSITY OF MICHIGAN

- *Major:* Computer Science
- *GPA:* 3.11/4.00
- *Course Highlights:* Operating Systems, Web Systems, Computer Security, Artificial Intelligence, Programming and Introductory Data Structures, Data Structures and Algorithms, Logic Design, Computer Organization, Calculus I, II, III, Linear Algebra, Discrete Math

Work Experience

SOFTWARE ENGINEERING INTERN | COMAU | MAY 2018 – AUGUST 2018

- Implemented functional control software for 6-axis robotic arm using C++ and ROS
- Leveraged parallel programming and reinforcement learning techniques on NVIDIA GPU to train 6-axis robotic arm for pick and place in Gazebo simulation
- Recreated real-world environment in simulation using Python and OpenCV to track and place objects
- Maintained project repository using Git for version control and Doxygen auto documentation
- Presented project to members of the Italian Trade Agency

MECHANICAL DESIGN INTERN | COMAU | MAY 2017 – AUGUST 2017

- Effectively brought solutions to life using SolidWorks and AutoCAD for major automotive customers
- Collaborated with senior engineers developing products to implement in large scale assembly lines
- Created and presented mechanical software training documentation to executive leadership team

Skills & Abilities

COMPUTER TECHNOLOGY

- *Extensive work with:* C/C++, Python, MATLAB, HTML, CSS, Linux Machines, ROS, Arduino, Microsoft Office, SolidWorks, AutoCAD, Gazebo
- *Familiar with:* JavaScript, React, Verilog HDL, basic PLM software, OpenCV, PyTorch

LEADERSHIP

- *Software Lead – Robotic Exploration of Space Team:*
 - Design, develop, and test control system for competition rover using C++, Python, ROS, and simulation in Gazebo
 - Actively manage team members and delegate tasks according to experience level and ability
 - Compete against over 40 other universities in the NASA Robotic Mining Competition