Mattison Rose

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Electrical engineering and computer science graduate student with leading industry experience, seeking to excel as a full-time Engineer.

EDUCATION

University of Michigan Sep 2017 – May 2019
Masters of Science in Engineering (EECS Robotics)
GPA: 3.67/4.00
- Feedback and autonomous control and artificial intelligence
- Mobile robotics, SLAM, Machine learning and data science

CQUniversity Mar 2012 - Nov 2015
Bachelor of Electrical Engineering (First Class Honors)
GPA: 7.00/7.00 (HD in all subjects)
- University Medal (Highest GPA of Bachelor graduates in 2015) 2015
- 14 additional industry and research awards 2012 - 2015

EXPERIENCE

Veoneer (MI – United States) Jan 2019 – May 2019
Electrical Hardware Design Engineer (Part Time)
- Developed PCBs, electrical test fixtures, simulations and instrumentation to aid in testing of ECUs
- Developed scripts and macros to efficiently examine test and simulate data

Daifuku (MI – United States) May 2018 – Aug 2018
Automated Vehicle Firmware Intern (Full Time)
- Led company research into LIDAR system integration for consumer SLAM projects
- Developed and improved existing driver software for sensory peripherals in ROS (C++/Python)
- Created Unix based co-kernels and tested firmware for real time CAN communication

AngloAmerican (QLD - Australia) Jan 2016 – Jul 2017
Graduate Electrical Engineer (Full Time)
- Led PLC automation projects resulting in increased performance and plant throughput
- Led multidiscipline teams in electrical overhaul, component reliability and optimization projects

RESEARCH EXPERIENCE

Graduate Research Project 2017 - Present
Integrated nano-manufacturing platform design and automation
- Barton research group student and member in the Electro-hydrodynamic jet printing team
- Led hardware design and automation research on the E-Jet system aspect of the design

Undergraduate Thesis and Summer Scholarship 2015
Design, construction and control of a bipedal robot platform for future humanoid research
- Ambitious final year project and the forerunner of the Mechatronics/Robotics Sector at CQU
- Use of C programming language and Matlab simulation tools

VOLUNTEER AND COMMUNITY ENGAGEMENT

Dream Big Project Leader – Movement to promote engineering to female school students 2015
National Big Idea Competition Winner – The next big idea in social business/entrepreneurship 2015

SKILLS

- Electrical hardware design/rapid prototyping
- Power Electronics/Electric drive control
- Proficiency with test equipment (multimeters, oscilloscopes and logic analyzers)
- Python/C/C++
- Use of USB, SPI, I2C and UART
- Altium/PCB Investigator/CANalayzer
- PLC Programming