Austin Winarski

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Personal Summary

Highly motivated and passionate student seeking an internship opportunity for the summer of '17 that will give exposure to real-world challenges in industry.

Academic

University of Michigan Flint January 2013 – May 2014

Computer Science Dual-Enrollment

Relevant Courses

- CSE 231 : Programming W/ Python
- ME 280 : Graphic Communications Using CAD

Michigan State University August 2014 – May 2018

B.A. of Science in Engineering (BSE) Degree in Computer Engineering

Relevant Courses

- PHY 184 : Physics for Scientists & Engineers II – Electronics & Magnetism
- ECE 230 : Digital Logic Fundamentals
- CSE 232 : Object Oriented Programming in C++
- MTH 235 : Differential Equations
- CSE 260 : Discrete Structures in Comp Sci
- ECE 280 : Electrical Engineering Analysis
- ECE 302 : Circuits and Systems – Intro to Semiconductors
- ECE 305 : Electromagnetic Fields and Waves
- ECE 313 : Control Systems
- CSE 331 : Algorithms and Data Structures
- ECE 331 : Microprocessors and Digital Systems
- ECE 402 : Applications of Analog Integrated Circuits

Recent Experience

Fulfillment and Logistics Consultant May 2015 – August 2015

J. Ryder Group ®, Bloomfield Hills, MI

- Manage inventory and request orders for restocking materials
- Administer various orders for Ford-Lincoln, CDJR, FCA, and more using materials including Coroplast and Dibond
- Oversee packaging and dispatch orders according to location and event date

Information Technology Assistant March 2016 – Present

MSU ComArtSci Technology, East Lansing, MI

- Assist WKAR and MSU Departmental Staff by troubleshooting various technological hardware or software issues
- Image computer labs, manage college share drives, and use/install a multitude of software for work related tasks
- Constitute professional emails and demonstrate excellent verbal communication towards Professors and Associate Deans

Project(s)

Aurora – *A Radio Frequency Identification (RFID) Door Lock*

Specifications:

- ID-20LA (125 kHz) RFID Reader programmed to control a Servo motor in order to adjust the locking mechanism on the door of my apartment
- Includes a piezo buzzer and RGB LED ring for lock and read feedback
- Developed using an Arduino R3
- Coded with C/C++ using the Arduino IDE

Competition(s)

SSTDC – *Student Safety Technology Design Competition* Dec 2016 – June 2017

Objective: Design, implementation, and real time simulation of a 10 GHz FMCW RADAR for pedestrian, vehicle, cyclist, etc. detection on autonomous vehicles.

Organization(s)

MSU Autonomous Ground Vehicles Club (AGVC) Sept 2016 - Present
Co-President & Co-Founder

Objective: The purpose of this organization is to further advance Michigan State University's knowledge and experience using autonomous ground vehicles with an end goal of creating the most advanced autonomous ground vehicles in industry.

Sub-Teams:

- Neural Network: Developed from real world driving scenarios using Kitti for obstacle avoidance and to aid in our first model.
- Computer Vision & Sensors: Object classification that will be used in our first competition (SSTDC).
- RADAR: Design of a radar system that will be used on our first autonomous vehicle.
- Vehicle Systems: Dedicated to any automotive upgrades/maintenance

Skills

Languages: C/C++, Python, Ruby/Ruby on Rails, HTML/CSS, JavaScript, and VHDL

Software: Microsoft Office, Sony Vegas, Creo Parametric 2.0, Adobe CC, Cadence OrCAD, PSpice, TenserFlow, LabVIEW, and MATLAB