Andrew James William Trumbo

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EDUCATION:

University of Michigan-Ann Arbor *Sep 2010-Present*

- Electrical Engineering
- Cumulative GPA: 3.53 / 4.00
- Relevant Coursework: **Currently Enrolled* ***Taking Next Semester*

EECS 203 Discrete Math*
EECS 230 Electromagnetics I*
EECS 312 Digital Integrated Circuits*
EECS 451 Digital Signal Processing*
EECS 270 Introduction to Logic Design**
EECS 311 Electronic Circuits**
EECS 281 Data Structures and Algorithms **
EECS 215 Introduction to Electronic Circuits
EECS 216 Introduction to Signals and Systems
EECS 280 Programming and Introductory Data Structures
EECS 320 Introduction to Semiconductor Devices

WORK EXPERIENCE:

Orbital Sciences Summer Intern *May 2012 – July 2012*

- Assisted Electrical Ground Support Equipment (EGSE) department in developing a new satellite test set, the STAR XPDA.
  - Mapped Signals through STAR XPDA to assist in its debugging.
  - Designed components for the STAR XPDA.

Phoenix Memorial Laboratory *May 2011 – Sep 2011*

University of Michigan - Ann Arbor

- Manufacturing of nano-crystalline radiation detectors through layer by layer deposition.
- Utilized an Oscilloscope to determine V/I characteristics of detectors with and without radiation source present.

EXPERIENCE:

Skills:

- Software: CadSoft Eagle, Cadence
- LabVIEW Certified in June 2011
- Coding Experience: C++ , MATLAB, Assembly, and LabVIEW

Michigan Autonomous Aerial Vehicle *Jan 2012- Present*

- Work on a multidisciplinary engineering team to design and build PCB boards for a quadrotor designed to compete in International Aerial Robotics Competition (IARC).

UROP Research *Sep 2010-May2011*

- Used Oscilloscopes to compare signals received from experimental chamber through a circuit, both designed and built by my team and I with the help of the sponsor.

Mini Design Class *Jan 2011-May 2011*

- For an Engineering class I was part of a 4 person team that designed and built a prototype of an electronic toy. This toy was controlled with assembly language using Altera Quartus and a hardware prototyping board.

FIRST Robotics Team *Jan 2008-May 2010*

Chassis Subteam co-Leader

- Organized and assisted in the building and alterations to the chassis of the robot used for competition at the national level.