

Shane M. Cincotta
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Skills

- A extensive understanding of computer hardware, including both trouble shooting and building various systems (primarily Windows and Linux)
 - Operating System skills such as concurrency, pthread library, system calls, piping, condition variables etc.
 - Programming Languages: C/C++-, Python, Java, MIPS, VHDL, MATLAB
 - Software: Linux, MultiSim, NI Ultiboard, SPIM, Windows XP/7/10, IOS/OSX
 - Ability to develop systems from the component level (Multisim, NI Ultiboard, VHDL).
 - Ability to develop code for use with various microcontrollers such as the Arduino Uno and Raspberry Pi Model 3B+.
 - CAD/3D Modeling
 - Circuit Board Design
 - Soldering
 - Microcontroller Design
 - Advanced knowledge of engineering mathematics including (but not limited to) the following subject areas: Geometry, Calculus 1, 2 & 3, Linear Algebra and Differential Equations.
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EDUCATION

University of Delaware, Newark, DE 2016 – 2020
Degree: Bachelor of Computer Engineering

EXPERIENCE

- Designed and developed a take-home airflow sensor for asthmatics. The device allows an asthmatic to self-administer an airflow test, which is normally done at a hospital. The system is deployed on a Raspberry Pi Zero

- This device can deliver and increase in data points be interpreted by a medical professional which will lead to more accurate readings of a patients progress with their asthma treatment, leading to a reduction of medication costs, more accurate prescription dosages, less frequent hospital visits and an increase in overall wellbeing.
 - Developed a musical instrument which involved creating a custom Arduino PCB shield. The instrument has the capability to change volume and pitch of the output sound.
 - Developed custom shell based on the TCSH shell. It supports various built in commands that one would expect in a Linux shell (ls, cd, pwd, exit, etc).
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SPECIAL SKILLS

- Experience working in various customer service jobs, such as retail and restaurants.
- Knowledge of proper lab safety and chemical precautions in general
- Ability to work and interact in a professional work environment
- I am an exceptionally quick learner and possess outstanding verbal and written communication skills.

References available upon request.