Joshua M. Irwin

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Education

Current Student at The Pennsylvania State University – University Park
Previously Studied for a B.S. in Electrical Engineering <2 years>
Currently Studying for a B.S. in Information, Sciences, and Technology
Focus in Application Design and Development
Expected graduation: May 2018
Cumulative GPA: 2.48
Major GPA: 2.85

Work Experience

Research Assistant, Penn State College of IST, University Park, PA (Winter 2016 – Present)
- Developing a web-based set of tools that allow users to create online tutors.
- Ruby on Rails implementation of a previous Java architecture.
- Project is to allow educators to create online tutors for students to access and use to build skills and to generate instruction.
- Involved with the development of features and developed functions for the application.

Check-Out Coach, Giant Food Stores, North Wales, PA/ Roslyn, PA/ State College, PA (Spring 2012 – Present)
- In charge of the front end of the store and all employees who worked on the front end.
- Ensured the department was running smoothly and that all needed tasks were accomplished.
- Manage up to 15 people at a time during a usual day.

Projects

Robotics Project (*Ongoing*)
- Integrating sensors and a microcontroller to allow a miniature vehicle to drive autonomously based on input from the environment.
- Completing work using the Arduino microcontroller and Arduino C language.

Designed Method of Reflow Soldering for High School Class
- Researched current methods of soldering Surface-Mount Devices and developed a process that would allow future classes to utilize these components.
- Used an Arduino microcontroller to create a method of controlling heating profiles, allowing the incorporation of Surface-Mount Devices (SMDs) in the classroom environment.

Clubs

- Involved with the model aviation club at North Penn High School
- Involved with the Penn State Robotics Club at both Penn State Abington and Penn State University Park
  - Built and developed projects based on the Arduino Microcontroller
  - Helped with tutorials on how to use the Arduino

Leadership Experience

Active with the Air Force Junior Reserve Officer Training Corps throughout all four years of high school
- Completed over one hundred service hours spread throughout two different units
- Obtained the rank of Cadet Senior Master Sergeant

Programming Skills

C++	Java	SQL	Ruby on Rails	CSS	Unity
Python	Networking	Arduino C	HTML5	JavaScript	Github

Relevant Courses:

- Introduction to Programming Techniques
- Introduction to Application Development
- Networking and Telecommunications
- Object-Oriented Design and Software Applications
- Language, Logic and Discrete Mathematics

Intermediate Programming
Organization of Data
Intermediate & Object-Oriented Application Development
Information Project Management
Foundations of Human Centered Design