BRANDON WLAZELEK

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EDUCATION

The Pennsylvania State University, University Park, PA

Bachelor of Science in Computer Engineering   GPA: **3.39**/4.00

Expected: May 2019

Awards: Wegmans Scholarship 2015 - 2016, Dean's List FA16 and SP17

TECHNICAL SKILLS

Java	PHP (server-side	Linux OS(Ubuntu)	Microsoft Excel
C/C++	scripting language)	Visual Studio	Microsoft Word
C#	Eclipse	Arduino	Adobe Photoshop
HTML/CSS	Unity (Game Engine)	Raspberry PI	Adobe Dreamweaver
Verilog	SQL	VectorCast	Assembly

WORK EXPERIENCE

Software Engineer Intern, BAE Systems**,** Wayne, NJ   May 2017- August 2017

- Programmed in C# which simulated a Field Programmable Gate Array (FPGA), sending messages using Universal Asynchronous Receiver-Transmitter (UART) to the CPU.
- Improved the doppler system by unit testing the code in order to meet government specification for a fail-safe system.
- Managed and updated the user guide and other applications for the doppler navigation system for the Blackhawk helicopter.
- Developed an embedded navigation system and a control display unit (CDU) for helicopters with a team of scientist and engineers

Cashier, Wegmans, Collegeville, PA   August 2013 - Present

- Awarded corporate recognition for consistent and excellent customer service
- Cross trained in different job functions.

TECHNICAL EXPERIENCE

Computer Science Final Project, Pennsylvania State University, State College, PA   Fall 2016

- Designed an interactive computer game with the Java programming language.
- Developed and debugged algorithms for gravity, object collisions, and movement.
- Utilized open-source programming, graphics, java API, object-oriented programs, data structures, timers, and files to complete assignment.

Robotics Club, Methacton High School, Worcester, PA   Fall 2011 - Spring 2015

- Collaborated with club members to design and program a battle robot.
- Programmed an Arduino Uno R3 to interface with motors, jumper wires, line followers, sonic sensors, battery holder, color sensor, and resisters.
- Created algorithms in the Arduino open-source program to upload source code onto the Arduino Uno R3.

ACTIVITES

- Pennsylvania Free Enterprise Week
- Microsoft Junior Achievement Club
- Architecture, Construction, and Engineering (ACE) Mentoring program
- Pennsylvania State University Hackathon