Abbass Ayoub

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Professional Experience

CenterLine Ltd, Product Development Intern – Windsor, ON   **May 2016 – Aug. 2016**

- Assembled and coded a wireless strain gauge device to measure force on resistance welding guns
- Optimized load cell circuit for power consumption, raw data accuracy, and range
- Designed PCBs in EagleCAD and soldered components to be implemented in Cold Spray Tech
- Developed testing system for interpreting voltages across I^2C multiplexed 96-I/O platform
- Utilized C++ to validate these output voltages for Linear Variable Differential Transformers

Technical Skills

Hardware:

- Implementation of sensors (PIR, ultrasonic, IMU), breakout boards, BLE, RF transmitters and pulse-width modulation (PWM) in prototype circuits
- Application of programmable microcontrollers (Arduino, Raspberry Pi, NXT) in design competitions
- Knowledge of electronic packaging issues (EMC, interference, tolerance stack-up) from PD experience
- Troubleshooting prototype circuits for noise and discontinuity with standard EE lab instruments

Software and Design:

- Proficient: C/C++, Java, Python, HTML/CSS
- Familiar: SolidWorks, EagleCAD, JavaScript, NodeJS, 3D printing (Rapid Prototyping)
- Elementary: Android Studio, Git, APIs

Projects

Alexa, Who's At The Door? – Facial Recognition System   **July 2016 – Aug. 2016**

- Created voice-controlled facial recognition system that identifies visitors at your front door
- Developed with Raspberry Pi, Amazon Echo, Javascript, NodeJS and Firebase database
- Published and featured with over 9500 project views – www.hackster.io/a-ayoub

Alfred – Wireless Home Automation System   **Dec. 2015 – Feb. 2016**

- Built a device that interacts with automated objects around your home from an android application
- Successfully opened/closed blinds, set indoor temperatures and controlled lights
- Created with Arduino, BLE, and Android Studio

A & A Lube Oil Change Website   **Dec. 2015 – Jan. 2016**

- Designed responsive website for oil change business. Built with HTML/CSS – fordnhixlube.com

Education

- **Candidate for BASc, Electrical and Computer Engineering**   **Sept. 2015 – May 2019**
  Wayne State University   Detroit, MI
  Awards: WSU Green Scholarship, WSU Promise Grant   **GPA:** 3.82