

Andrew Ankrah

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Summary

- An ambitious problem solver, currently pursuing a MSc degree in Electrical Engineering, with a 3.8 GPA.
- Experience researching, designing, developing, testing, debugging and optimizing embedded systems for medical and automotive use.
- Solid foundation in circuitry and schematic design.
- Adept in analyzing Data using statistical tools such as Excel, Python numpy, R, and MATLAB.
- Familiar with a wide variety of programs, test equipment, embedded systems software such as CANoe, architectures and protocols such as CAN, Flexray and Bluetooth.
- Outstanding communication skill, both in writing and orally.
- Actively searching for job opportunities in Software Development, Product Design and Data Analysis

Education

WAYNE STATE UNIVERSITY – Detroit, Michigan

2016-2018

- M. S. in Electrical Engineering (3.8 GPA)
- Courses:
Computer Networks and Programming, Smart Sensor Technology I, Embedded Systems Design, Biomedical Instrumentation

WAYNE STATE UNIVERSITY – Detroit, Michigan

2011-2015

- B. S. in Biomedical Engineering (3.5 GPA)
- Completed courses:
Computer Programming and Numerical Methods, Statics for Engineers, Electric Circuits I and II, Electronics I and II, Biomedical Engineering Design labs I-V, Statics and Mechanics of materials, Introduction to C++, Linear Networks and System Analysis
- Member Tau Beta Pi (National Engineering Honor Society) since 2012
- Dean's list: Fall 2011, Fall 2013, Winter 2015
- Scholarships: Recipient of Robert T. Marshall and Arthur Carr Scholarship

Skills and Abilities

Computer skills:

- Programming languages: C++, Java, Python, PHP/MySQL, Microsoft VBA
- Simulating software: Siemens NX 7.5, MATLAB, Mathcad, NI Multisim, AutoCAD
- Web Developing tools: HTML, CSS, JavaScript, jQuery and Bootstrap

Leadership Skills:

- Led a four-member team and placed second in design contest that involved programming a robot to perform a specific task in my BE 1200 design class.
- Successfully led a four-member team to develop a communication tool (prototype) for people with Aphasia
- Assisted in the training and mentorship of new associates working as a Sales person at JC Penney

Experience

STUDENT CO-OP ENGINEERING | DTE ENERGY | DETROIT, MICHIGAN | 2017-PRESENT

- Analyzing substation circuits maps to identifying suitable locations to place Fault Indicators
- Creating work orders and scheduling Fault Indicators installations
- Assisting in the design and data integration of Smart Fault Indicators
- Verifying loading, fault, and power status data on Distribution Management System displays to provide management and crews with accurate grid conditions
- Created functions in Excel to automate the assigning of SFI names for efficiency and accuracy

SALE ASSOCIATE | JC PENNY INC | NOVI, MICHIGAN | 2009-MAY 2017

- Recognized as the associate of the month for January 2017
- Earned consistent commendations including an “All Star” associate for exemplary customer service
- Proven ability to multi-task, handle multiple customers, resolve customer issues with little to no supervision and excel most of the time
- Prepared and maintained lecture rooms
- Assisted in the mentorship and training of new associates

Projects

“CARFACE”: A FACE RECOGNITION SYSTEM FOR VEHICLES | WAYNE STATE UNIVERSITY | WINTER 2017

In this project, we successfully developed a system that uses facial recognition to identify the driver, and recall preset positions of side view mirror associated with the driver. Acted as Project Manager and Lead Android developer in a team of three to develop this embedded face recognition system. Worked closely with my team members to coordinate timelines and develop project strategies. Designed, programmed and debugged, an Android based app with Bluetooth capability to connect with the CarFace system as well as act as the user interface.

SENIOR CAPSTONE PROJECT: “APHICOM COMMUNICATION TOOL (ACT)” | WAYNE STATE UNIVERSITY | AUGUST 2014-MAY 2015

Designed an android based application that connects with Google glass to help patients with Aphasia to communicate effectively in a social setting. Created the design and programming of the application on both Android phone and google glass using Java and Android studio. Presented the final prototype at the College of Engineering 1st Annual Design and Innovation Day. The application is now approved for testing on real patients.

IMAGE PROCESSING TOOL USING MATLAB | WAYNE STATE UNIVERSITY | FALL 2013

This was a mini-project but useful image processing system with Graphic User Interface (GUI). The user of the system can load, process the image and save the resulting final image. The system was also programmed in such a way that the user had the capability to change the brightness, contrast, add and filter noise, apply regression and differentiation to images, as well as compare the histogram of original images and transformed images.