Arber Xhindoli

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Education

University of Michigan — **Ann Arbor, MI**
Bachelor of Science in Computer Science Engineering — April 2018
Physics Minor
GPA 3.5/4.0

Project Experience

Hotdog Mobile App — **Ann Arbor, MI**
C# Application (Personal) — September 2016-October 2016

- Developed C# application with the use of Xamarin through Plural Insight, that would allow users of the app, to view, purchase, and order different menu items from their mobile phones. Application template can be implemented to accommodate a wide variety of restaurant formats.
- Learned many core aspects of Android development, including: views, activities, and data services.

Data-Path Simulator — **Ann Arbor, MI**
C Project(Classwork) — September 2016-Present

- Implementing C program to act as data path, to execute machine code instructions, in three different configurations: Single Cycle Data Path, Multi Cycle Data Path, and Pipelined Data Path.
- Leveraging knowledge on modern data path's (specifically MIPS), to handle data hazards, and control hazards.

Optimal Path Routing — **Ann Arbor, MI**
C++ Project(Classwork) — June 2016

- Created optimized Backtracking algorithm to create an optimal solution for the Traveling Salesman Problem with under 40 nodes. Method involved pruning results, until sufficient route through all nodes is constructed.

P.E.P.E-Personal Occupancy Calculator — **East Lansing, MI**
C++ Application(Personal) — March 2015

- Applied a facial recognition algorithm (using OpenCV library), to create distinct facial objects, belonging to a single person. Application would then be used to keep an accurate measure of the number of distinct people inside an area, using just a webcam.

Work Experience

National Super Conducting Cyclotron Laboratory — **East Lansing, MI**
Simulation Development Intern — September 2014-August 2015

- Designed a prototype simulation of a particle detector using C++ toolkit Geant4, for the purposes of actual implementation for the laboratory.
- Self-taught advanced object-oriented concepts like inheritance and polymorphism, to create working simulation.

IHS Automotive — **Southfield, MI**
Powertrain Research Intern — May 2014-August 2014

- Established an In-depth study on technology adoption path of stop-start powertrain applications, leveraging a broad range of resources including OEM interviews, patent searches and topical white papers.
- Collaborated directly with customers and engineers to improve customer satisfaction by customer contact through letters and calls
- Presented information and study findings to more than 40 key analysts at IHS.

Computer Skills

Programming Languages: C++, C#, Python, MATLAB, JavaScript, HTML, CSS
Frameworks/Software: Visual Studios, Xamarin, Microsoft Suite, Geant4, NX (CAD)
Operating Systems: Windows, Linux, Mac OS