alobaidizt@gmail.com
248-632-4864

Ziyad T. Al-Obaidi

github.com/alobaidizt

EDUCATION

Oakland University, Rochester, MI — Fall 2012 - Fall 2015

Bachelor of Science in **Computer Engineering** — **GPA: 3.56**
Bachelor of Science in **Electrical Engineering**
Graduate of the **Honors College (Cum Laude)** — **Bilingual,** fluent in both **English** and **Arabic**

Awards and Scholarships

- Tau Beta Pi Sophomore Recognition Award (Given to top 20 of Sophomore class) (2013) — 2013
- Google Glass Business Plan and Development Competition (1st Place) (2014) — 2014
- MI Competitive Scholarship & OU Academic Achievement (2012-2015) — 2012 - 2015

Skills (* marks Sensei level)

SW Languages:	Assembly, C++*, C#*, CSS*, JAVA*, JS*, NodeJS*
Hardware:	Freescale (Motorola) HCS12, Arduino*, Particle, Siemens PLC, Tridium JACE modules
OS Dev:	Linux*, macOS*, Windows, Android*
Frameworks & Platforms:	AngularJS, EmberJS*, MongoDB*, Docker*, Niagara AX Framework, GCP, AWS, Redis, websockets

Relevant Coursework

- Differential Equations with Matrix Algebra	- Object-Oriented Computing I & II	-Electric Circuits and Devices I & II
- Signals and Systems	- Digital Logic and Micro-Proc design	- MicroProc-Based Systems Design
- Electrical Machines & Electromagnetics I	- Automatic Control Systems	- Communications Systems
- Design and Analysis of Electromechanical Sys	- Robotic Systems and Control	- Machine Vision

EXPERIENCE

Software Engineer — eFlex Systems — 2014 - Present

- Front-end development on emberjs in a Scrum process
- Co-led research development with wearable devices (Google Glass)
- Integrated wearable devices with beacons to deliver geographically aware contextual data
- Responsible for developing production critical backup process
- Integrated a real-time system to alert users for any product malfunctions on the plant floor
- Developed code on C++,C# -mono environment-, Ruby, Coffeescript, Node.js

Control Engineer, Intern — PA Solutions — 2012 - 2014

- Design automotive electrical connections using AutoCAD
- Develop, test and implement AutoCAD and Excel automation tools using VBA
- PLC programing
- Develop, test and implement KUKA programing language for automotive robots
- Collaborate with internal and external users to determine requirements and negotiate the system needs
- Research coding and database concerns to resolve non-functional applications issues
- Supplied troubleshooting, analysis, and solutions for clients' database and application issues

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Academic Projects and Involvements

Founder, President — Makers at OU — 2014 - 2015

- Founded the club at OU
- Aligned the org to be on the path of inspiring and leading OU students to realize the creative and entrepreneurial potential
- Recruited students by presenting the org's statement, purpose, and resources during sophomore project classes
- Spread the word by reaching out to and working with fellow professors, advisers, and students
- Developed and presented workshops about Internet of Things, Web Development, and Virtual Reality on OU campus
- Reached out to and hosted speakers from local companies in the Rochester area as well as Startups from Detroit
- Purchased equipment the aligned with our message of bringing resources to the students and making them readily available
- Worked with faculty to volunteer our time and help FIRST robotics teams from local middle and elementary schools

Vice President — TALK (Technology and Leadership Keys) — 2014 - 2015

- Contacting and coordinating with TALK events and speakers
- Recruiting and Marketing
- Running bi-weekly e-board meetings
- Co-Organized events with up to 80 students in attendance

Solar Panels Efficiency Research — Senior Capstone Project — Fall 2015

An interdisciplinary project with the director of Clean Energy Research Initiative at OU to setup and test different types and setups of Solar panels on the roof of OU's new Engineering Center

- Lead the software development of this project
- Developed, planned, and executed the software installation
- Worked in tandem with fellow students for a smooth integration process
- Co-Wrote and presented the progress and completion reports to judges and fellow students

Predictive Analytics in Sports (Soccer) — Honors College Thesis — 2015

Conducted a research over the span of 5 months to investigate and develop non-invasive methods of predictive analytics in Soccer. The purpose of the research is to help coaches make data-informed decisions in real-time

- Worked with a Faculty mentor of SECS over the span of the research
- Purchased and tested different wearable devices
- Analyzed Data from previous Scholarly papers as well as from our own collected data
- Successfully, presented and delivered a complete thesis to the Honors College