

Omar Abouhussein

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EDUCATION

PURDUE UNIVERSITY
WEST LAFAYETTE, IN
Bachelor of Science in
Computer Engineering
(Certificate in Entrepreneurship
and Innovation)
Graduating May 2020
GPA: 3.51/4.00

TEACHING ASSISTANT

- ECE368: Data Structures (Fall '19)
- ECE364: Software Engineering Tools Lab (Fall '19)
- ENGR131: Transforming Ideas into Innovation (Fall '17)

RELEVANT COURSES

- ECE595: Applied Algorithms
- ECE463: Intro to Computer Networks
- ECE368: DS and Algorithms
- ECE364: Software Engineering Tools Lab (Python and Bash)
- ECE30862: Object-Oriented Programming
- ECE369: Discrete Mathematics
- ECE264: Advanced C Prog.
- ECE362: Microprocessor Systems and Interfacing
- ECE270: Digital System Design

SKILLS

Programming Languages:

- C/C++/C--
- Python
- Java
- System Verilog
- MATLAB
- SQL
- HTML
- Bash
- Git
- Android Studio

Frameworks:

- TensorFlow
- Jenkins
- AutoCAD
- Google Cloud Vision
- Clarifai API

Languages:

- Bilingual: English/Arabic
- Intermediate: Spanish/French

WORK EXPERIENCE

QUALCOMM | SOFTWARE ENGINEERING INTERN

Summer 2019 | San Diego, California

- As a part of the LTE Layer1 Uplink division, worked to enhance off-target testing and logging.
- Also responsible for enhancing the Crash triage and related plugins.
- Developed an intelligent emailing assistant to automatically update the prism, triage issues, and execute commands mentioned in the email.

INDOOR POSITION SYSTEM (IPS) RESEARCH | UNDERGRADUATE RESEARCH STUDENT

Jan 2018 – August 2018 | West Lafayette, Indiana

- Developed a full system necessary to achieve high-precision (approximately 10-cm) positioning in an indoor environment.
- I, along with another team member, were particularly responsible for the Application/Software Development of this system.

DATA ANALYTICS FOR SMART CITIES RESEARCH | UNDERGRADUATE RESEARCH STUDENT

Summer 2018 | West Lafayette, Indiana

- Integrated IntelliSense Depth sensors on cars to detect potholes on the road
- Used Machine Learning techniques to detect the potholes and cracks on defected roads.

EXTRACURRICULAR EXPERIENCE

SOFTWARE SATURDAYS

Feb 2019 – May 2019 | West Lafayette, Indiana

- Learned the basics of Android App Development in Android Studio using Java.
- Utilized OOP to enhance game development concepts.

SPARK CHALLENGE

Dec 7 2018 | West Lafayette, Indiana

- Designed a safe that doubled as a cookie jar which locked/unlocked with a solenoid mechanism, using embedded C language to code the STM32F0 microcontroller.
- As a group of four, we built a locking system that is triggered only by correctly answering a set of mathematical expressions, with each answer being a digit to the passcode responsible for unlocking the solenoid.
- Developed an alarm system for the safe that is triggered in the case of supplying a wrong input, inputting multiple answers consecutively, or if the user fails to input an answer within an allocated time frame.
- Awarded 3rd place of 70 teams by the *school of ECE, ECE Student Society, and General Motors* for the outstanding achievement in designing and prototyping a microcontroller-based project.

MADHACKS HACKATHON

Nov 2018 | Madison, Wisconsin

COMMUNITY SERVICE

HABITAT FOR HUMANITY | INTERNATIONAL MEMBER

Feb 2015 | Phnom Penh, Cambodia

- Gained international experience as a team member for an international, non-profitable organization.
- Diligently worked as a team to establish a foundation to two houses to the less fortunate.

HONORS AND AWARDS

DEAN'S LIST (1)

Spring 2019 | Purdue University

SEMESTER HONORS (4)

Fall 2017 - Spring 2018 - Fall 2018 - Spring 2019 | Purdue University

QualStar Award

Summer 2019 | Qualcomm Technologies, Inc. | San Diego, CA

Awarded for outstanding contribution to the team's success