

ABRAHM COURY

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154 W. 5th St, Unit #215, Tempe, AZ 85281

Working towards a Bachelor's degree in Computer Science, followed by a Master's Degree in Computer Science. Interested in a career that allows for exploring new technological advancements and how they can impact other areas of life. Previous job/project experience helped develop knowledge of:

- **Computer Programming**
- **Data Analysis/Visualization**
- **Embedded Software/Hardware Systems**
- **The Engineering Design Process**

WORK EXPERIENCE

07/2018 – PRESENT

NEUROSURGICAL IMAGING LAB, MAYO CLINIC

I am responsible for contributing to the tech-related endeavors of the neurosurgery department. Although project specifics are confidential, I use DICOM data, Unity, C#, and HoloLens's to engineer solutions that assist neurosurgeons and patients in preparing for operations.

05/2018 – PRESENT

FLEXIBLE HYBRID ELECTRONICS LAB, ARIZONA STATE UNIVERSITY

I am responsible for developing and improving upon embedded systems, android apps, and machine learning algorithms that improve remote monitoring and analysis of Parkinson's Disease Patients' behavior through wearable devices.

11/2017 – PRESENT

UNIVERSITY TECHNOLOGY OFFICE - FACILITIES AIDE, ARIZONA STATE UNIVERSITY

I am responsible for maintaining data centers across all the University's campuses. I have impacted ASU by dismantling, degaussing, and surplussing old equipment, and installing new technology to increase the efficiency of ASU's digital information storage/systems.

08/2018 – Present

PARALLEL SYSTEMS AND COMPUTING LAB, Arizona State University

I am responsible for helping bring energy efficiency and data intelligence to a wider spectrum of computing infrastructures and devices. Currently I am focusing on the development of a portable IoT device which collects and reports environmental data.

08/2017 – 07/2018

RESEARCH ASSISTANT, BEHAVIORAL PROCESSES LAB (ARIZONA STATE UNIV.)

I was responsible for running rats through trials relating to Temporal Bisection and Motivational Influences. I also used the data from these trials to perform statistical analysis/calculation, data visualization, and computational model fitting that was published in posters and papers.

EDUCATION

COMPUTER SCIENCE (SOFTWARE ENGINEERING), ARIZONA STATE UNIVERSITY
EXPECTED MAY 2019 // GPA: 3.75 // MAJOR-SPECIFIC GPA: 3.95

SKILLS & RELEVANT COURSES

PROGRAMMING LANGUAGES: C++, JAVA, PYTHON, JAVASCRIPT

SOFTWARE: ARDUINO, MATLAB, AUTODESK FUSION 360, ADOBE CREATIVE CLOUD, UNITY

COURSES: DATA STRUCTURES & ALGORITHMS, DIGITAL DESIGN, OPERATING SYSTEMS,
SOFTWARE ENGINEERING, PRINCIPLES OF PROGRAMMING LANGUAGES
THEORETICAL COMP. SCI., MACHINE LEARNING, HUMAN-COMPUTER INTERACTION

PROJECTS

08/2017 – PRESENT

VIETNAM SMART CITIES PROJECT

Created a real-time pollution sensing device utilizing Internet of Things that can be placed on motorbikes to provide accurate and updated pollution data to the citizens of Da Nang, Vietnam.

08/2018 – Present

NASA Lucy Mission Student Collaboration Project

Working with a team of ASU students to design and build a mission instrument as a part of ASU SpaceWorks L'SPACE Instrument Incubator Project. Utilizing complex project design, fabrication, and thermal and structural testing of the final design in space-like conditions.

VOLUNTEERING

01/2015 – PRESENT

BEST BUDDIES ARIZONA

International Organization that encourages the acceptance of those with special needs and the interaction between those with and without special needs through sports and social events.

08/2018 – Present

PCs for Refugees

Organization aiming to provide every refugee family in Arizona with access to a PC in their own home. I focus on building/repairing PC's, but we also have tutoring and awareness services.

AWARDS & ACHIEVEMENTS

- **2017:** Trash Hack Tempe – 2nd Place
- **2017:** Earth Optimism Summit – Make for the Planet Competition Finalist
- **2017:** EPICS Generator Awards – Outstanding Team Leader
- **2016:** HOSA International Finals – 8th place (CERT Skills)
- **2013:** Boy Scouts of America – Eagle Scout Award