

# Adam Benabbou

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MSC# 874627, 1831 UNIVERSITY STATION, TUSCALOOSA, AL 35401

## EDUCATION

### Bachelor of Science in Aerospace Engineering

The University of Alabama, Tuscaloosa, AL

Minor: Randall Research Scholars Program

### The American School of Tangier

May, 2019

GPA: 4.0/4.0

May, 2015 – Valedictorian

## TECHNICAL EXPERIENCES

### Summer Research Intern – Aoki & Yokozeki Laboratory, The University of Tokyo

- Characterization of cyclic behavior of flexible skin for morphing application
- Coded optical measurement technique in MATLAB for quantifying engineering strain

May 2018 – July 2018

Fall 2016 – Spring 2018

### Undergraduate Research Assistant – Aircraft Rapid Prototyping Laboratory, The University of Alabama

- Developed an aircraft missions simulation and analysis project using STK and MATLAB
- Designed, built, and flew a 36-inch span dual ailerons model airplane wing for autonomous systems testing
- Created a model airplane replacement elevator using composite materials to increase torsional strength
- Developed and tested feasibility of Inertial Navigation System using low-cost components

Spring 2016 – Present

### Lab Manager – Randall Research Scholars Program, The University of Alabama

- Manage the computer lab's Linux servers, 3D printers, and network inventory and security
- Provide technical support for members of RRS and faculty of the Honors College

## EXTRACURRICULAR ACTIVITIES

### Head Engineer – Alabama Prosthetic Project

- Designed CAD model to allow for customization of prosthetic hand for each recipient
- Participated in the Lemelson-MIT Competition by invitation
- Partnered with orthopedic hand surgeons at Children's Healthcare of Atlanta and Children's of Alabama

Aug. 2017 – Mar. 2018

Apr. 2016 – May 2017

### Vice President – American Institute of Aeronautics and Astronautics, UA Chapter

- Contacted and scheduled speakers for events and facilitated meetings when needed
- Planned and executed efforts which increased membership and club participation by over 40%

## SKILLS

**Programming:** MATLAB, Fortran, C, C++, Python, Bash, SQL, AutoIt

**Systems and Software:** STK, Arduino IDE, Linux OS, Windows OS, Autodesk Inventor, SolidWorks, MSC Nastran/Patran, GIMP

### Languages:

- **English** – Native Proficiency
- **Japanese** – Limited Working Proficiency
- **Spanish** – Elementary Proficiency
- **French** – Native Proficiency
- **Arabic** – Limited Working Proficiency

## HONORS AND AWARDS

- Randall Research Scholars Fellowship; 2018
- H.H. Chapman Award; 2018
- 3<sup>rd</sup> place at AGI EAP Grant Competition using the Systems Tool Kit; 2017
- Tau Beta Pi Membership; 2017
- Computer-Based Honors Fellowship; 2016
- Student Government Association Research Grant; 2018
- Sigma Gamma Tau Membership; 2017
- Tuscaloosa International Friends Scholarship Award; 2017
- The Joseph McPhillips III Scholarship Award; 2015