**William McCarty**

419 Pinedale Drive♦ Auburn, AL, 36830 ♦ 256-343-3141 ♦ wpm0002@auburn.edu

PROGRAMMING AND COMPUTER EXPERIENCE (YEARS)

Programming Languages

Other Technologies

*4 or more* C++, Java, Python

*1 to 4* C, Objective-C , MATLAB, JavaScript, Swift

*4 or more* Linux, Windows, Mac, Git, Excel, SQL, Bash

*1 to 4* ROS, NS-3, AutoCAD, CloudSim, CPLEX, VMware

EDUCATION

Bachelor of Software Engineering, Minor in Mathematics

*Auburn University*

May 2018

Auburn, AL

* GPA: Overall 3.05 In Major: 3.15
* Dean’s List Spring 2017

RESEARCH EXPERIENCE

Undergraduate Research Assistantship

*Auburn University – Department of CSSE*

August 2017 – Present

Auburn, AL

* Researched networking protocols in different MANET configurations using NS-3.
* Generated results which are being used to improve autonomous vehicle caravans.

Research Experience for Undergraduates

*National Science Foundation*

May 2017 – August 2017

Auburn, AL

* Collaborated with a team of undergraduates to design and develop a novel fog network architecture.
* Wrote an internal technical report that is being used to inform future research at Auburn.

Undergraduate Research Assistant

Auburn University – Department of Mechanical Engineering

January 2015 – October 2015

Auburn, AL

* Worked on a federally funded project that provided GPS-guidance for the visually impaired.
* Developed an iOS app that allows visually impaired users to interact with navigation software.

LEADERSHIP EXPERIENCE

Leadershape

*Leadershape Institute*

August 2016

Champaign, IL

* Selected by peers and advisors to attend a week-long leadership seminar.
* Networked with fellow student leaders and learned valuable leadership skills.

Auburn Recovery Community – Vice President

*Auburn University Health Promotion and Wellness Services*

August 2015 – August 2016

Auburn, AL

* Spoke in front of large groups about mental health and recovery from addictive behaviors.

OTHER WORK EXPERIENCE

Aerospace Engineering Intern

*Aerospace Coatings International*

March 2014 – December 2014

Oxford, AL

* Developed FAA approved repairs for multiple commercial aircraft piece parts.