**Samuel J. Bishop**

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**EDUCATION**

**University of Missouri - Columbia** *Columbia, MO*

*Bachelor of Science in Electrical and Computer Engineering Expected Graduation: May 2021*

*Minors in Computer Science, Mathematics, and Spanish GPA: 3.50*

*Dean’s List High Honors*

**Study Abroad, University of Heidelberg** *Heidelberg, Germany*

*Completed coursework in Circuit Theory*

**PROFESSIONAL EXPERIENCE**

**Garmin International** Olathe, KS

*Software Engineer Intern, Aviation May 2019 – August 2019*

* Developed code in C and Python for Garmin Integrated Flight Decks.

Specifically helped to establish a graphical object library to be used in future generations of

flight displays.

**University of Missouri School of Engineering** Columbia, MO

*Computer Science and Electrical Engineering Tutor September 2018 – December 2018*

* Instructed peers on concepts learned in Algorithm Design and Programming I,

Circuit Theory, and Introduction to Logic Systems. Additionally, tutored Algebra, Geometry,

Trigonometry, Precalculus, Calculus 1, and Calculus 2.

**SKILLS**

**Programming Languages:** C, Java, Python, HTML, CSS, SQL, Arm Assembly

**PROJECTS**

**Generation One Pokedex Database**

*Developed a sophisticated generation one pokedex database in SQL that supported advanced queries.*

*Additionally, developed a front-end web app for the project using HTML, CSS, and PHP.*

**32-Bit Basic Calculator**

*Created a functioning 32-bit calculator using command line and Arm Assembly language.*

**ACTIVITIES AND INTERESTS**

**Mizzou Computing Association (MCA)** Columbia, MO

*Development Tools Special Interest Group*  *January 2018 – Present*

* Participates in weekly discussion about utilizing dev tools such as Git, Vim, and

SSH on UNIX/Windows Subsystem Shells.

**Mizzou Space Program (Space Technology Interest Group)** Columbia, MO

*Team Lead January 2019 – Present*

* Lead team of 5 engineering students in the development of an autonomous space rover.
* Used a combination of Arduino Uno microcontroller and Raspberry Pi 3 Microprocessor to process C

and TensorFlow machine learning algorithms, in attempt to achieve the desired physical outcome.

* Aided in the mechanical engineering design process as well as the electrical implementation.

**Mizzou Triathlon Club Race Team** Columbia, MO

*President January 2018 – Present*

* Coordinates a team of 15-20 athletes competing in collegiate triathlon.

**SELECTED AWARDS**

*MDHE Bright Flight Scholarship:* The Missouri Higher Education Academic Scholarship Program is a merit-based program that encourages top-ranked high school seniors to attend approved Missouri postsecondary schools.