

# Alex Cooper

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## EDUCATION

**University of Alabama in Huntsville** (Graduating May 2024)  
Bachelor of Science Degree in Mechanical Engineering (3.4/4.0 GPA)

## EXPERIENCE

**Research Assistant II** (January 2022 – September 2023)

University of Alabama in Huntsville/Boeing, *Huntsville, AL*

- Worked with Autonomous Aerospace Research on campus.
- Applied engineering techniques and skills to assist Boeing engineers as a part of their Product Design Team.
- Utilized Creo Parametric and Boeing's internal databases to catalog models and refine designs for the SLS Exploratory Upper Stage.
- Created and updated engineering drawings and fabrication notes and instructions with Boeing engineers.
- Promoted to Lead position of Boeing's Product Design Team after 1 year with company.

**iAgent** (May 2017 – August 2021)

Lake Zurich Community School District 95 Technology Department, *Lake Zurich, IL*

- Repaired school-issued iPads and resolved issues with High School students.
- Utilized Apple-provided services to repair school-issued iPads.
- Prepared school-issued iPads for incoming K-12 students.
- Promoted to Lead iAgent in Spring 2019 and was head of the 10 member iAgent team.

## PROJECTS

### UAH Moon Buggy

Designed and built a moon buggy along with 31 other students to compete in NASA's 2024 Human Exploration Rover Challenge. Fabricated a metal and 3D printed task tool to help rover riders accomplish challenging tasks along the rover course.

### Maker's Club

Founded and led a club centered around promoting a community for students to collaborate and learn new maker skills. Planned and led biweekly meetings for students to learn new skills. Led a group of first-year students in the UAH Emerging Leaders program to learn more about club leadership.

### Eagle Scout

Earned highest award within Boy Scouts. Organized and led a project to renovate the interior courtyard of local middle school by removing weeds, placing mulch, and building and installing several decorative signposts, study benches, and paver stones.

### Dr. Bernard Harris Supernova STEM Award Recipient

Earned award in 2015 based around the principles of STEM, which involves researching a controversial scientific topic, participating in a Science Fair, and teaching a scientific topic to a younger Cub Scout Pack.

## SKILLS

- Proficient in AutoCAD, SolidEdge, and Creo Parametric Modelling Software.
- Proficient with 3D Printing.
- Proficient in Microsoft Windows & Apple MacOS.
- Novice in MATLAB, JavaScript, C++, and Python.
- Novice in SVG Design.
- Proficient with Soldering Equipment.

## POSITIONS

- President/Founder  
April 2023 - PRESENT
  - UAH Makers Club
- Lead Coordinator  
May 2022 – May 2023
  - UAH Emerging Leaders
- Fellow & Small Group Lead  
May 2021 – May 2022
  - UAH Emerging Leaders
- Eagle Scout  
March 2012 – May 2020
  - Boy Scouts of America