

Nathan Eads

[LinkedIn](#) | eadsnf@gmail.com | Atlanta, GA | (678) 613-1743 | [Website](#)

Education

University of Alabama – *(May 2023)*

Bachelor Science, Mechanical Engineering | 3.8/4.0 GPA

Riverwood High School – *(May 2019)*

3.7/4.0 GPA, Principal's List

Field Experience

Atlanta Face Shields – Co-Founder & Chief Operating Officer *(2020)*

- 3D printed PPE for frontline workers during COVID-19
- Raised nearly \$30,000 and donated over 4,200 shields
- Managed 100+ volunteers and a multi-tiered supply chain

The University of Alabama 3D Printing Lab – Student Employee *(2019 – Present)*

- Manage, maintain, and repair 15+ Industrial 3D printers
- Advise students on designing for printing, limitations of 3D printing, & workflow efficiency
- 3D Scan with Artec Spider & Eva, and associated software
- Print medical grade casts for injured University of Alabama Football Team using CCF printing
- Refreshed file submission method, maximizing automation, data collection, and efficiency

Extra-Curricular Projects & Organizations

UA 3D Printing Society – President & Founder *(2020 – Present)*

- Founded online forum to disseminate 3D printing knowledge and experience on campus

UA SAE Baja Race & Design Team – Electrical Sub-Team Leader *(2019 – Present)*

- Create Raspberry Pi dash unit to record engine temperature, RPM, and speed
- Oversee and maintain standard vehicle electronics on all race buggies

UA Tusca UAV – Member *(2019 – Present)*

- Participate on the University of Alabama's Drone design team as 3D printing resource

Design and Fabrication of Electric Skateboard – *(2019)*

- Construct Lithium-Ion battery and electric drive chain

UA Astronomical Society – Member *(2019 – Present)*

UA Historical Society – Member *(2019 – Present)*

Custom Cartesian FFF/FDM 3D Printer – *(2019)*

Riverwood High School Makerspace – Director of Operations *(2018 - 2019)*

- Responsibly manage a \$50,000 budget to furnish a Makerspace for future students

Skills

Computer and Hardware

- 3D Printing & Rapid Prototyping
- General Fabrication Skills
- Vehicle Electronics & Mechanics
- Electromechanics & Robotics
- Arduino, Raspberry Pi, & Other Microcontrollers

Software, Firmware, and Miscellaneous

- SolidWorks, Autodesk Inventor, & Fusion 360
- Arduino C, JavaScript, & Python3
- HTML/CSS & Website Design
- Marlin (3D Printer Firmware)
- Android Studio & Google Cloud APIs
- Microsoft Office & Adobe Creative Cloud

Hobbies & Personal Activities

Outdoors

- Sope Creek Mountain Bike Coach
- Eagle Scout & Venture Scout
- Philmont Scout Ranch – *(2016)*
- Avid Skier, Backpacker, and Outdoorsman

Travel & Culture

- Lived in Lyon, France – *(Summer 2016 & Summer 2018)*
- Ambassador for French Exchange Students
- Organized summer exchanges for high school peers
- Toured Southern Ireland – *(Summer 2016)*