

Nathan Eads

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Education

University of Alabama – (May 2023)

Bachelor Science, Mechanical Engineering | 3.52/4.0 GPA

Riverwood High School – (May 2019)

3.7/4.0 GPA, 31 ACT

Work Experience

Fitz-Thors Engineering – Mechanical Engineering Co-Op (2021)

- Designed engine lifting tools for Mercedes-Benz pre-production assembly line
- Created PLM web-app to estimate supply and demand of components for large scale manufacturing projects

Pond Company – Mechanical Engineering Intern (2021)

- Trusted to lead documentation project for Uranium Processing Plant
- Worked with fueling & natural gas mechanical teams on various secondary projects

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 5,000 face shields
- Managed 100+ volunteers and component supply chain

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

- Manage, maintain, and repair industrial 3D printers
- 3D scan complex objects with Artec Spider & Eva, and associated software
- Designed and printed medical-grade casts for injured University of Alabama Football Team using CCF printing
- Redesigned file submission website, automated print request process

Extracurricular Organizations & Projects

Tikkun Olam Makers (TOM), University of Alabama – President & Founder (2021 – Present)

- Created TOM club to design open-source medical hardware for individuals with physical limitations

SAE Baja Engineering & Design Team – Lead Electrical Engineer (2019 – 2021)

- Built and programmed Raspberry Pi dashboard unit to record and display engine data

Additive Manufacturing Society, University of Alabama – Founder (2020)

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

Custom Electric Skateboard – (2019)

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

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

Skills & Professional Interests

Computer and Hardware

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

Software, Firmware, and Miscellaneous

- SolidWorks, AutoCAD & Autodesk Inventor
- Visual Basic, Python3, JavaScript & Arduino C
- Web-App Development & GUI Design
- Marlin (3D Printer Firmware)
- Microsoft Office & Adobe Creative Cloud

Hobbies & Personal Activities

Scouting & Outdoors

- Sope Creek Mountain Bike Coach
- Eagle Scout – (2017)
- Philmont Scout Ranch – (2016)
- Avid Skier, Backpacker, and Outdoorsman

Travel & Culture

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