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Available Full-Time: May 1st, 2023 – August 18th, 2023

Nathan Eads

Education

University of Alabama | Mechanical Engineering, GPA: 3.4

Graduating December 2023

Founded TOM Medical Engineering and UA's 3D Printing Society. Lead Electrical Engineer for SAE Baja Race Team.

Experience

Mechanical Commissioning Intern | Hood Patterson & Dewar, D.C.

Summer 2022

Responsible for testing and commissioning industrial energy recovery units, air handler units, chillers, and cooling towers at "Big Tech" data center. Worked on a monumental & novel construction project with diverse teams. Actively contributed to daily and weekly meetings.

Mechanical Engineering Intern | Fitz-Thors Engineering, Bessemer, AL

Fall 2021

Designed and manufactured engine and transmission lifting fixtures for Mercedes-Benz electric vehicle assembly line using SolidWorks and machine shop. Manufactured door installation hoist for Nissan Frontier assembly line. Created HTML-based Project Lifecycle Management software to manage and visualize demand for large projects.

Mechanical Engineering Intern | Pond & Company, Atlanta, GA

Summer 2021

Trusted to lead documentation project for Uranium Processing Plant, worked directly with customer to ensure outstanding results. Used AutoCAD to review and revise drawings for U.S. Military and several Fortune 500 Companies. Developed Visual Basic scripts to automate tedious office tasks.

Co-Founder | Atlanta Face Shields, Atlanta, GA

Summer 2020

Led a team of 100+ volunteers to 3D print, assemble and disinfect face shields for local hospitals and first responders during the onset of the COVID-19 pandemic. Raised \$30,000 and donated over 5,000 face shields. Used GoFundMe, Trello, Instagram, and website to recruit and coordinate our volunteers.

Lead Student Technician | University of Alabama 3D Printing Lab (The Cube)

Fall 2019 – Present

Lead a team of 5 students to manage and maintain 20+ industrial 3D printers. Advise professors and students on design for additive manufacturing. Redesigned The Cube's website to automate print request process.

On-Campus Involvement

Founder | University of Alabama TOM Medical Engineering

Spring 2021 – Present

Partnered with Adapted Athletics Department to redesign their gym and wheelchairs to maximize athlete independence. Working with Tuscaloosa Veteran's Association to help local veterans with disabilities.

Lead Electrical Engineer | University of Alabama SAE Off-Road Race Team

Fall 2019 – Spring 2021

Developed Heads-Up Display (HUD) system to display and record engine diagnostic data using Python and HTML.

Activities & Interests

Eagle Scout • Backpacking • Skiing • French Exchange Program • Python • HTML/CSS • Machining • Nuclear Engineering