

Aaron Gothard

East Canton, OH | (330)-309-5497 | me@aarongothard.com | He/Him/His

Education

Vanderbilt University | Nashville, TN

August 2021-May 2025

Bachelor of Engineering, Mechanical Engineering

Cumulative GPA: 3.69/4.00

James A. Clark Scholar, Dean's list for 3/3 semesters

East Canton High School | East Canton, OH

August 2017 – May 2021

High School Diploma

Cumulative GPA: 4.00/4.00

Valedictorian, Summa Cum Laude, Academic All-Ohio

Skills

Programming: Proficiency with Java, MATLAB, Python, Familiarity with AHK

Design: Certified Solidworks Associate, Proficiency with AutoCAD, Fusion360

Fabrication: Proficiency with Laser cutting, Bandsaw, Drill Press, Molding and Casting, Familiarity with Fabric Arts

Professional: Quick Learner, Meticulous Worker, Eager Collaborator, Efficient Communicator

Experience

The Wond'ry | Nashville, TN

May 2022 - Present

Makerspace Technician

- Designed and fabricated simulation media for bone biopsy training in VUMC
- Facilitated personal and professional projects for Vanderbilt Faculty and Students
- Mentored and advised student design teams through the iterative design process
- Orchestrated workshops to teach molding, casting, laser cutting, and 3d printing to students and staff

Biostats Inc. | Canton, OH

January 2019 - August 2019

Data Analyst Intern

- Assisted in the analysis of data from medical research projects
- Co-Authored 2 Manuscripts published in peer-reviewed research journals
- Collaborated with a team at Western Reserve Hospital to help with experiment design

Selected Projects

Bone Biopsy Simulation

May 2022

A substitute for human tissue for medical staff to train performing bone biopsies

- Designed different layers of bone and tissue as well as their corresponding molds using Solidworks
- Casted individual parts using materials fitting their real-world properties
- Collaborated with industry experts to iterate through different designs

"Discord" Translation Bot

October 2021

A Hackathon project to translate messages between users instantaneously

- Coded a bot in Java for the communication platform "Discord" to respond to simple commands as well as reactions
- Implemented Google's translation API to communicate with a locally hosted server
- Completed our team's program and presentation in just 7 hours

Helmet Hero

January 2021

A tool for removing and reattaching Riddell SpeedFlex facemasks

- Partnered with Stark County football coaches to fix seating issues with Riddell™ SpeedFlex Quick Release Pins
- Designed and 3D printed a multitool that implemented features from multiple different tools using Fusion360
- Marketed this product in the "Stark Tank" Entrepreneurship competition, where it won 4th place