

# Daniel A. Glynn

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Engineering student with a strong background in 3D printing, rapid prototyping, designing functional products, software development, automation, and relentlessly accomplishing goals as well as always searching for systems that can be optimized.

## Education

**Bachelor of Science in Mechanical Engineering**

University of Minnesota, Minneapolis, MN, Expected — 05/2022

- **Minor:** Computer Science
- **GPA:** 3.65 / 4.00

## Professional Experience

**Business Owner and Product Designer**

Yelt3D, Barnesville, MN, 11/2017 — Present

- Designed, manufactured, marketed, and shipped over 4,000 smart home accessories for both the Google Home and the Amazon Alexa voice assistant products.
- Received over 46,000 downloads for free downloadable, 3D printable smart home accessory models on Thingiverse.com.
- Manage, maintain, and operate a 3D print farm consisting of 14 machines to produce bulk production grade products.

**Undergraduate Student Researcher**

McAlpine Research Group, Minneapolis, MN, 05/2020 — Present

- The McAlpine Research Group focuses on 3D printing functional materials such as 3D printed electronics and biomedical devices.
- Working to develop a new 3D printing and slicing software to be used with the proprietary biological 3D printers.

**Software Development and Data Analysis Intern**

Steffes Group Inc, Fargo, ND, 01/2019 — 08/2019

- Developed Python web scrapers to automate data collection from 45 competing companies and compile data into reports.
- Automated the creation of geographical heatmaps that compared competitor sales data to internal company data.
- Developed Chrome extensions for internal employees to automate tasks and increase functionality of company website.

**Manufacturing Engineering Intern**

JSM Woodworks, West Fargo, ND, 05/2018 — 09/2018

- Designed jigs, fixtures, and tools to speed up manufacturing and assembly processes using Autodesk Inventor Professional.
- Evaluated assembly methods by collecting data, developing test procedures, and ensuring reliability and efficiency.
- Created a company-wide ecosystem in Atlassian JIRA to import workorders, maintain streamlined order monitoring, issue ticketing and reduce repeated issues in the woodshop manufacturing process.

**3D Printing Technician**

Fargo 3D Printing, Fargo, ND, 05/2017 — 04/2018

- Repaired hardware and software issues for over 50 different models of 3D printers ranging from consumer to professional.
- Automated the importing of shipping manifests, creating barcoded labels, and managing inventory with a Python script.
- Designed products and silicone casting molds that would be manufactured and sold by the company.

## Volunteer Experience

**Earl E. Bakken Medical Devices Center, UMN**

10/2019 – Present

- Repairing, maintaining, and operating multiple different 3D printers in the lab including a Stratasys J750 Polyjet 3D Printer, a Formlabs Form 2 SLS printer, and several FDM printers.
- Manufacturing and assembling ventilators to be used in the fight against the COVID-19 pandemic with Coventors.com

## Key Personal Projects

**3D Printing and Donating Face Shields to fight COVID-19**

03/2020 – Present

- Utilizing 14 3D printers to manufacture hundreds of face shields per day. Coordinating with clinics, hospitals, county officials and more to get face shields into the hands of people that are in need. [Yelt3D.com/Covid19](https://yelt3d.com/covid19)

**Rate My Gopher UMN Professor Ratings Chrome Extension**

10/2019 – Present

- Developed a Chrome Extension that loads data from RateMyProfessors.com directly on the University of Minnesota's schedule builder website to help students plan their schedule. The extension has been installed over 200 times.

## Activities

**University of Minnesota Solar Vehicle Project**

07/2019 – Present

- Using ANSYS to perform finite element analysis (FEA) to ensure the chassis and roll cage can withstand simulated loads as required by the competition standards. Member of the Aerodynamics and Statics team.
- Utilizing common industry manufacturing methods such as CNC, lathes, and waterjets to produce high quality parts of the solar vehicle that will race in the American Solar Challenge and the Bridgestone World Solar Challenge.

## Technical Skills

- **Excel** – Experienced in writing custom functions/macros with VBA, creating complex calculation workbooks, and working with the processing/organization/presentation of data into detailed reports
- **CAD** – AutoCAD, Autodesk Inventor, Fusion 360, Solidworks, ANSYS FEA, PTC Creo Parametric, 3D Printing Slicing Software
- **Programming** – Python, MATLAB, JavaScript, C++, ReactJS, Arduino Microcontrollers & Sensors
- **Manufacturing** – CNC, Mill, Lathe, 3D Printing, Woodworking, JIG Design, Water Jet, Laser cutter
- **Applications** – Windchill PDM, GrabCAD Workbench, National Instruments LabVIEW, Git, MS Suite, ANSYS, Atlassian JIRA