

# Dylan Treschl

(224)-619-4534 | dylan.treschl@gmail.com | [LinkedIn Profile](#) | [dylantreschl.com](#)

## Education

### Bachelor of Computer Engineering

University of Minnesota, Twin Cities, Minneapolis, Minnesota

Expected Graduation, 2021

## Work Experience

### Seagate Technology

Hardware Systems Engineering Intern

Shakopee, MN

5.20 – Present

- Worked to incorporate comprehensive NVMe device support to a Seagate-internal program used for hard drive diagnostics and testing, using C and C++, on both Windows and Arch Linux.
- Recalibrated and wrote additional, updated code for HDD performance model.
- Performed Monte Carlo product portfolio projections and visualized data using Visual Basic and R.

### TA Instruments Electroforce Division

Research & Development Intern

Eden Prairie, MN

6.19 – 12.19

- Designed, coded, and prototyped a fully functional, GUI-controlled computer vision system that utilizes machine learning to distinguish similar devices from one another, the concept of which is being provisionally patented.
- Designed and prototyped multiple high-density cooling assemblies for linear long stroke motors, using both Solidworks and ANSYS.
- Worked with the Research and Development team to research and design a custom heatsink for cooling custom power amplification boards.

### Starbeat Intermedia, Inc.

Technical Intern

Deerfield, IL

6.18 – 8.18

- Assisted with editing and producing visual and auditory media for use as radio and television advertisements.
- Maintained the computers and recording/editing systems in use.

### Mathnasium

Math Tutor

Highland Park, IL

5.18 – 12.18

- Tutored children of all grade levels in math, from basic skills through calculus to help them to develop a firm, concrete understanding of the building blocks of basic mathematics as well as mastering high levels of math.

### Online Merchant

eBay

Minneapolis, MN

10.15 – Present

- Own and operate an online eBay store selling restored and refurbished electronics.

## Computer Engineering Project Work

### University of Minnesota Solar Vehicle Project ([Project Website](#))

Driver/Lead IT Technician/PCB Design Team Member/Cable Management Lead

Minneapolis, MN

9.17 – 5.21

- Traveled as part of the UMN team to Australia for 6 weeks in the fall of 2019 to compete in the [Bridgestone World Solar Challenge](#), where our car, Eos II, placed fifth in the cruiser class.
- Technical team lead in charge of overseeing all computers and electronic test equipment. This involved hands-on building, updating, and fixing multiple electronic components.
- In charge of routing cables throughout the vehicle and ensuring cables are properly shielded from the electric noise of the car's motors, while adhering to all race regulations.
- Maintain and upgrade the team's locally-hosted wiki.
- In charge of gaining and maintaining sponsorship from multiple Fortune 500 companies.

### Alpha Chapter of Theta Tau Professional Engineering Fraternity

Member and Co-Chair of Philanthropy Committee

Minneapolis, MN

9.18 – Present

- Co-chair of the Philanthropy Committee, organizing events to benefit the Minnesota community, including Goodwill donations, Feed My Starving Children, and raising money for various charitable organizations.

### FIRST Tech Challenge

Lead CAD and Design Specialist, Builder

Highland Park, IL

2014 – 2017

- Worked with a team to engineer and build a robot capable of performing pre-determined challenges in competition. Utilized Autodesk Inventor Pro CAD Software for robot design.
- Team robots advanced to the Super-Regional level of competition 3 years in a row and to the World level in 2017.

### Additional Noteworthy Project

3D Printer

2015 - 2017

- Designed and custom-built a 3D printer, from 3D-printed parts.

## Skills

- **Programming Languages:** C++, C, Java, HTML5, CSS, Python, Verilog, ASM, MATLAB, R, Visual Basic, Processing
- **CAD Software:** Altium, NI Ultiboard, Solidworks, PTC Creo, ANSYS, Autodesk: Inventor Pro, Fusion 360, Revit, AutoCAD
- **Design Software:** CorelDraw, Final Cut Pro 7, GIMP, Adobe: Illustrator, Photoshop, Dreamweaver, After Effects, Premiere
- **Operating Systems:** MacOS, OpenBSD 6.3, Ubuntu, Arch Linux, Windows: XP, Vista, 7, 8, 8.1, 10
- **Other Software:** Google: Drive, Docs, Sheets; Microsoft: Word, Excel, Outlook, PowerPoint
- **Machinery:** WaterJet cutting systems, Manual Mills & Lathes, Laser Cutters, 3D Printers