Dieter Brehm

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Education

May 2022	**Olin College of Engineering @** Needham, MA

Bachelor of Science in Engineering with a focus in Computing and Design, GPA 4.0

- Recipient of 4-year, 50% Olin Merit Scholarship
- Relevant Courses: Machine Learning, Quantitative Engineering Analysis, Software Design, Principles of Engineering, Creativity Practicum, Design Nature, Modeling and Simulation, Products and Markets

June 2017	**Dublin School @** Dublin, NH

High School Honors Diploma, GPA 3.87, summa cum laude

Summer 2016	**Worcester Polytechnic Institute @** Worcester, MA

Robotics Summer Program to learn new techniques for teaching robotics to students

What I've done

Summer 2019	**Olin College Crowdsourcing and Machine Learning Lab @** Needham, MA

Software Accessibility Researcher

- Developed iOS apps for vision accessibility using swift 5, Apple's AR Kit, and modern architecture techniques.
- Co-designed with people who are blind and who have low vision

Olin College of Engineering @ Needham, MA

2018-2019	• **LetsshedIt – A Scheduling Web Application** Developed a full-stack web app in a team with Vue, Python, and MariaDB that coordinates student schedules, pulling information from Google Calendar services and optimizing possible meeting times in a multi-user system.
2018-2019	• **Olin Snapshot** Full collaboratively made redesign of Olin marketing material in InDesign and Illustrator implemented as a traditionally printed newspaper featuring student stories, art, and perspectives.
2018-2019	• **International Aerial Robotics Competition Olin Project Team** Worked on computer vision and drone control software in ROS and Python for an autonomous drone navigation project.

Dubin School @ Dublin, NH

2013-2017	• **High School FRC Robotics Team Captain (2017)** Taught robotics C++ and Python programming and project management to peers Learned Scrum methodology from Scrum certified project manager
2014-2015	• **DIY electric vehicle team** Built four wheeled electric vehicle with easily accessible low budget equipment and parts to explore the viability of DIY vehicle production

September 2017	**Dublin Community Center @** Dublin, NH

Programming Teacher
Volunteered at local community center teaching beginner coding program.

Skills

Programming
Python
HTML, CSS
Javascript
C++
MATLAB
Emacs
Mathematica

Illustration, Design, and CAD
Adobe Suite
Figma
SolidWorks
Fusion 360
LaTeX
Machine Shop
3D printer
laser cutter
CNC router