

Dieter Brehm - Designer

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Education

May 2022 **Olin College of Engineering @ Needham, MA**
Bachelor of Science in Engineering with a concentration in Human Centered Product Design, GPA 4.0

- Recipient of 4-year, 50% Olin Merit Scholarship
- Relevant Courses: Affordable Design and Entrepreneurship, Machine Learning, Quantitative Engineering Analysis, 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 2020 **School for Poetic Computation @ Virtual NYC**
Accessibility Focused Intern

- Helped improve accessibility of website and course materials.

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

2021 • **Data Structures and Algorithms Teacher**

In a team of 4 developed and ran a fully student-led semester-long college course.

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.

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

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.