

Dieter Brehm

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Education

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

Dublin School @ Dublin, NH

High School Honors Diploma, GPA 3.87, summa cum laude

Worcester Polytechnic Institute @ Worcester, MA

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

Things I've done

Olin College of Engineering 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

- **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.
- **Olin Snapshot** 2018-2019
Full collaboratively made redesign of Olin marketing material in InDesign and Illustrator implemented as a traditionally printed newspaper featuring student stories, art, and perspectives.
- **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

- **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
- **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

Dublin Community Center @ Dublin, NH

Programming Teacher

Volunteered at local community center teaching beginner coding program.

Skills

Programming

Python
C++
MatLab
Emacs
Mathematica
HTML, CSS
Javascript

Illustration, Design, and CAD

Adobe Suite
Figma
SolidWorks
Fusion
LaTeX

Machine Shop

3D printer
laser cutter
CNC router
drill press
band saw