

# Alan Deutsch

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Highly self-motivated and a quick learner, equipped with a dual human-centric and technical skillset, strong in theoretical knowledge, driven by a penchant for details and never settling for less than what's possible.

## EDUCATION

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Tufts University Medford, MA  
**B.S. in Mechanical Engineering**, 2025, GPA: 3.89 (Dean's List all semesters)  
Spring 2024 Semester Abroad, University College London London, UK

### Favorite Coursework:

Thermal Fluid Systems, Electronics & Controls, Engineering Design, Materials & Manufacturing, New and Renewable Energy Systems, Electrical Machines and Power Electronic Drives, Data Structures, Philosophy, German

## PROFESSIONAL EXPERIENCE & LEADERSHIP

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**Tufts Solar Vehicle Project (TSVP)** – <https://sites.tufts.edu/solarvp> Medford, MA  
*Operations Lead* September 2023 – Present

- Leading sponsorship and media teams, guiding long-term strategy, communicating with internal and external stakeholders, and keeping team organized.
- Implemented Gantt charts, weekly check-ins, and delegated tasks, greatly improving team productivity.
- Active on technical side of the team as well – worked on projects such as a solar panel lamination machine and carbon fiber resin infusion.

**Tufts University CEEO (Center for Engineering Education and Outreach)** Medford, MA  
*Future Educational Technologies (FET) Lab Intern* June 2022 – February 2023

- Developed a STEM educational framework making use of the LEGO Education SPIKE Prime development platform, Python, and Mind Render, a Japanese visual programming app.
- Led hackathons on middle school students and found positive educational outcomes of the framework.
- Went on a week-long trip to Tokyo during February 2023 to advise creator of Mind Render on new iterations of the app, run STEM workshops for Japanese kids, and discuss the future of Japanese STEM education with local government officials and parents.

**MATE (Marine Advanced Technology Education) Robotics** Shanghai, China  
*Captain/CEO* 2017 - 2021

- Head Design/Hardware Engineer (G9-11), Captain/CEO (G12)
- Designed, programmed, fabricated, and budgeted underwater robots.
- Team placed 1<sup>st</sup> in China in 2019; later years disrupted by COVID.

**Tezign | 特赞** Shanghai, China  
*Data Analysis Intern - Strategy Department* June 2020 – August 2020

- Analyzed user metrics and developed online suite of tools to determine optimal customer leads.
- Self-managed project deliverables and communicated effectively with stakeholders in English and Chinese.

## ENGINEERING PROJECTS

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- Portfolio - <https://alandeutsch.me>

## SKILLS & INTERESTS

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**Computer:** Fusion360, AutoCAD, SolidWorks, Onshape, KiCad, COMSOL, Microsoft Office, Adobe CC, Typing

**Fabrication:** 3D printing, laser cutting, water jet, welding, resin infusion, machine shop (lathe, milling, drilling, etc.)

**Programming:** Python, C++, PHP, SQL, HTML/CSS, MATLAB

**Languages:** Mandarin Chinese (fluent), German (proficient)

**Interests:** movies, music, reading, languages, violin (symphony orchestra), ultimate frisbee (club team)

March 2024