

Lucas Chang

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Education

Tufts University

Bachelor of Science in Civil Engineering, Urban Studies Minor

GPA: 4.0

Relevant coursework: Structural Analysis, Geotechnical Engineering, Fluids, Computer Aided Design, Urban Design and Resilient Cities

Medford, MA

Class of 2028

Experience

Construction Engineering Intern

Halmar International – Golden Gate Bridge Seismic Retrofit Phase IIIB

- Calculated AASHTO LRFD capacities for 100+ governing design sections, feeding into a CSiBridge global structural model to evaluate D/C ratios for thousands of members.
- Drafted means-and-methods construction access plans using AutoCAD.
- Compiled and edited submittal packages — narratives, equipment sheets, drawings, and calculations — for Golden Gate Bridge District review.

Sausalito, CA

May 2026 – August 2026

Engineering Teacher

Celsius and Beyond

- Designed curriculum for a transportation / mechanical engineering course introducing 100+ students to topics including climate change and public transportation
- Led hands-on lessons illustrating mechanical principles using scale models of da Vinci's aerial screw and trebuchet.
- Taught drag-and-drop programming and motors through LEGO Snap kits.

San Francisco, CA

June 2025 – May 2026

Freelance Programming

- Drew from Census and SFGov data and collaborated with the San Francisco Bicycle Coalition to create a website detailing the history of car dependency in San Francisco.
- Developed and maintained a school scheduling website serving 300+ daily users.
- Programmed game mods downloaded 1000+ times.

September 2021 – Present

Activities

Cross Country and Track and Field

- Varsity Student-Athlete, balancing 20+ weekly training hours with full academic course load; qualified for NESCAC & DIII New England Championships.

August 2024 – Present

Skills

Language: English, Mandarin

Engineering & Design: AutoCAD, Revit, ArcGIS, 3ds Max, Sap2000

Programming & Data: Python, MATLAB, R, OSMnx, Web Development

Software: Microsoft Office, Adobe Creative Suite