




NATHAN FONG

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SKILLS

- Basic knowledge in Autodesk AutoCAD, Revit, Fusion 360, Inventor, and Maya
- Basic knowledge in Lumion
- Fundamental understanding of Python, HTML, CSS, and Java
- Microsoft Excel, Powerpoint, Word

EDUCATION

Bachelor of Science :
Architectural Engineering

Oregon State University
Corvallis, OR
Expected in 06/2026

Walnut High School
Walnut, CA • 05/2022

CERTIFICATIONS

Project Lead The Way
Computer Science
Scholar Student Certificate
Walnut, CA • 05/2022

EAST SAN GABRIEL VALLEY
REGIONAL OCCUPATIONAL
PROGRAM
Computer Aided
Drafting/Design/
Architectural Drafting
Walnut, CA • 05/2021

CLUBS

- ASCE Architectural Engineering Institute, 2022 - Current
- Oregon State Combat Robotics, 2022 - Current
- OSU General Engineering Club, 2022 - Current
- Member of FIRST Tech Challenge Robotics Team, 2017 - 2022
- Member of FIRST LEGO League Robotics Team, 2013 - 2017
- eSports Communication Staff and Club Cabinet Officer, 2018 - 2022

SUMMARY

Student with nine years of experience in FIRST robotics programs. Consistently working in building and design. Strengths in Computer Aided Drafting. Currently majoring in Architectural Engineering at Oregon State University.

WORK EXPERIENCE

Julia Y. Chen Design Inc. - Summer Architectural Drafting Project
Fairfax, CA • 06/2021 - 07/2021

- Initial Design and Layout of an Accessory Dwelling Unit using Autodesk Revit and AutoCAD

TECHNICAL COURSES

- Computer Aided Design and Drafting 1 & 2
- Computer Science Essentials
- AP Computer Science Principles
- AP Computer Science A
- Cybersecurity
- AP Physics 1 & 2
- IDTech 3D Modeling with Autodesk Maya
- IDTech JavaCoding Camp
- Stem Center USA Electronics 101

OTHER TECHNICAL EXPERIENCE

Robot Build and Design Committee Captain
FIRST Tech Challenge (FTC)
Walnut, CA • 05/2017 - 05/2022

- Volunteered for FLL and FTC events in various positions.
- Established team communication standards
- Worked with the team coach to resolve robot design/execution issues.
- Led the build team in creation of the robot and unifying design concepts.
- Researched parts and materials to apply to the robot.
- Worked with team programmers to understand optimal sensor placements.
- Successfully managed deliverables in robot design.

Robot Build Committee Captain
FIRST LEGO League (FLL)
Walnut, CA • 05/2013 - 05/2017

- Developed team communications and information for build meetings.
- Directed members to blend and accommodate ideas from all members into the robot.
- Wrote code for the robot's positioning logic with sensors.

ACCOMPLISHMENTS

- LAFTC Championships Dean's List Award Semi-Finalist Winner, 2020
- FTC Raytheon Technologies Innovate Awards, First Place, 2018, 2019 and 2022 - Impressed judges with unique utilization of LEGO parts in a typically aluminum design environment.
- Advancement to FTC Super Regional Championship, 2018
- Advancement to FTC Regional Championships, 2018, 2019, 2021, and 2022
- FTC Robot Game Winning Alliance Captain, 2018
- FLL Regional Championship Inspiration Award, 2017
- Advancement to FLL Invitational Championship, 2017
- Advancement to FLL Regional Championships, 2014-2017
- FLL Qualifying Tournament - Champion's Awards, 2015, 2016