NATHAN FONG

@ nathanfong.plux@gmail.com

☎ (626) 800-8250

𝒆 pluxie.github.io/NathanFong

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.

📍 Walnut, California

in linkedin.com/in/NathanFongPx

SKILLS

Software: Creo, **AutoCAD**, **Revit**, **Fusion 360**, Inventor, Maya, Lumion 4.0, Microsoft applications, Google applications
Language: Python, HTML, CSS, and Java

EDUCATION

Bachelor of Science : Architectural Engineering Expected in 06/2026
Oregon State University
Corvallis, OR • (GPA: 3.71)

Walnut High School
Walnut, CA • Graduated 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

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

- CEM 472 MECHANICAL FACILITIES
- CCE 203 VIRTUAL DESIGN & CONSTRUCTION
- CCE 201 GRAPHICS & DESIGN
- ENGR 213 STRENGTHS OF MATERIALS
- ENGR 212 DYNAMICS
- ENGR 211 STATICS
- ST 314 INTRO TO STATISTICS FOR ENGINEERS
- ENGR 103 ENGINEERING COMPUTATION AND ALGORITHMIC THINKING
- ENGR 102 DESIGN ENGR & PROBLEM SOLVING
- ENGR 100 THE OSU ENGINEERING STUDENT
- PH 213 GENERAL PHYSICS WITH CALCULUS
- PH 212 GENERAL PHYSICS WITH CALCULUS
- PH 211 GENERAL PHYSICS WITH CALCULUS
- Computer Aided Design and Drafting 1 & 2
- Computer Science Essentials
- AP Computer Science Principles
- AP Computer Science A
- Cybersecurity
- IDTech 3D Modeling with Autodesk Maya

OTHER TECHNICAL EXPERIENCE

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

- Volunteered for over 12 FLL and FTC events in various positions.
- Publicly presented at 30+ events for outreach and demonstrations.
- Successfully managed weekly deliverables in robot design.

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

- Directed votes to unify designs from all teammates into the robot.
- Designed and built major components of the robot.

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