

Ethan Nguyen

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EDUCATION

University of California, Los Angeles

September 2021 – June 2025

Bachelor of Science in Biophysics, Minor in Data Science Engineering

GPA: 3.99

EXPERIENCE

Research Coordinator

December 2022 – Present

Elegant Mind Collaboration at UCLA

- Developing software to reconstruct stenosis models in 3D using stereo images in the microscopy group
- Presented research findings virtually at the UCLA Undergraduate Research Week to researchers and faculty
- Led a team of researchers in analyzing EEG data to test Dr. Katsushi Arisaka's theory on consciousness's origin
- Provided training to new team members on creating PsychoPy protocols, collecting EEG data, and analyzing data using Matlab, ensuring continuity and knowledge transfer within the team

Executive Board Member

September 2022 – Present

CruX Neurotech Organization at UCLA

- Conducted workshops on neuroscience and machine learning with Python and Colab notebooks
- Led a team of 9 to construct a brain-computer interface that enables context-dependent control of either an electric wheelchair or robotic arm to provide extended movement and object manipulation capabilities for users
- Established GitHub pages on cruxucla.github.io for hosting workshop materials and a wiki

Robotics Intern

June 2019 – September 2019

SRI International in Menlo Park

- Streamlined and modernized the robotic surgical Taurus Robot Telemanipulation software by refactoring over 100k+ lines of C++ code, enabling cross-compatibility on both Windows and Linux platforms
- Leveraged GitLab's Continuous Integration to troubleshoot build errors, ensuring smooth software deployment throughout the development cycle
- Conducted thorough code testing through Unreal Engine VR simulations and live robot tests

Combat Robotics Designer

September 2019 – May 2022

American Society of Mechanical Engineers at UCLA

- Designed Beetleweight combative robots for the annual collegiate SoCal Smackdown tournament using Solidworks for precise 3D modeling
- Collaborated with a team of 5 to brainstorm, manufacture, and assemble our drumbot
- Demonstrated practical skills and leadership by driving and operating the robot during competition

VOLUNTEERING

UCLA Health Volunteer

March 2024 – Present

- Volunteering as a floater to guide patients throughout Ronald Reagan UCLA Medical Center

IRS Tax Volunteer

September 2021 – May 2022

- Completed the IRS Tax Assistance Certification to provide tax assistance to the elderly, non-English speakers, low-income workers, and those in need in the Los Angeles area.

Piano Performer Volunteer

September 2021 – June 2021

- Performed improvisational jazz and classical piano weekly at the Assisted Living Unit

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Matlab, Mathematica, JavaScript, HTML/CSS, R

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, LLMs

Libraries: Boost C++, C++ 11, numpy, pandas, matplotlib, keras, OpenCV, Tkinter, PsychoPy

Software Skills: Machine Learning, Computer Vision, Socket Programming, Multithreading, Logging

Other Softwares Used: Fiji, Pylon, Unity, Solidworks, Onshape, OpenBCI, EMOTIV Software

Other Skills: 3D-printing, CNC Manufacturing, Laser Cutting, Arduino, Wet Lab/Chemistry Lab Techniques