

Nick Mak

COMPUTER SCIENCE
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EDUCATION

UC SAN DIEGO

B.S. IN COMPUTER SCIENCE
December 2021 | La Jolla, CA

R.A. SCHOOL OF THE ARTS

WORLD MUSIC AND DANCE
Grad. May 2016 | San Francisco, CA

LINKS

Website:// nmakucsd.github.io
LinkedIn:// nick-l-mak
GitHub:// nmakucsd
FIRST Robotics:// team5700.org

COURSEWORK

Computer Science in Java and C/C++
Computer Architecture
MIPS Assembly Language
Verilog
Data Structures and Algorithms
GitHub
Unix/Linux Operations

SKILLS

LEADERSHIP

Public Speaking • Agile Development
Community Service • Teaching (3+ years)
Sponsorship Outreach •

COMPUTER SCIENCE

Java • C++ • Unix/Linux
Robotics Programming • Excel • MIPS
Verilog • Arduino • \LaTeX

ENGINEERING

MACHINING

CNC | Computer Numerical Control
Mill • Lathe • Routing
Welding • Metalworking

SOFTWARE

3D Printing
CAD | Computer Aided Design

PRODUCTION

MEDIA | SPECIAL EFFECTS

Adobe Suite:
After Effects • Premiere Pro CC
Photoshop • Lightroom
Final Cut Pro X • Squarespace
Wordpress

AUDIO ENGINEERING

Garageband • Melodyne

EXPERIENCE

UCSD IEEE ROBOCUP ANNUAL PROJECT | PROJECT LEAD

October 2019 - Present | UCSD

- Manage team of seven individual to build, program, and design one of six robots to play in international Robocup Robotics Competition.
- Publish paper on robot specifications and documentation.
- Design parts with Computer Aided Design.
- Program robot using Raspberry Pi

TAYLOR COLLABORATIONS LAB | ENGINEERING INTERN

May 2017 - July 2017 | San Francisco, CA

- Developed presentation on arthroscopic tool designs used in minimal-invasive arthroscopy.
- Learned and used Computer-Aid Design for part manufacturing.
- Learned and applied G-code (programming language) for CNC machining.

FIRST ROBOTICS TEAM | MENTOR, FOUNDER, PRESIDENT

August 2014 - December 2017 | San Francisco, CA

- Founded team through school administration, raised \$10,000 to kickstart.
- Managed, lead, and taught a team of 40+ high school students to construct 100lb robots to compete annually.
- Studied and developed skills in Machine Fabrication, Computer Aided Design, Java Programming, Computer Vision, Electronics Engineering, Business Development, Public Relations, Web Developing, Videography, Accounting, Project Management, and Team Management.

KOTX UCSD | MEDIA PRODUCER

- KOTX is a KPOP Social and Dance Organization.
- Designed and populated KOTX website with Wordpress.
- Designed Media material using Premiere Pro, After Effects, Photoshop, Lightroom, and Garageband.
- DOP (Director of Photography) for various video projects.

PROJECTS

FIRST ROBOTS | SOFTWARE DEVELOPER, MECHANICAL ENGINEER

October 2014 - December 2017 | San Francisco, CA

Worked with FRC Team 5700 | SOTA Cyberdragons to manufacture and program 120lb robots, annually to compete in the FIRST Robotics Competition. Concepts like, rapid prototyping, version control, hardware programming were used frequently.

ANIMATRONIC WIRELESS ARM | PERSONAL PROJECT

June 2016 - September 2016 | San Francisco, CA

Created robotic hand to mimic user's hand positions. The project uses an Arduino + breakout board along with flex sensors on a glove to send wireless signals to a servo actuated arm.

AWARDS

FIRST ROBOTICS COMPETITION

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|------|----------------------------|--------------------------------------|
| 2018 | FRC San Francisco Regional | 2018 Excellence in Engineering Award |
| 2017 | FRC San Francisco Regional | 2017 Imagery Award iho. Jack Kamen |
| 2016 | Calgames 2016 | 2016 Highest-Seeded Rookie Award |