# Nikki Woo

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https://nikkiwoo.github.io/index.html

## EDUCATION

**University of California, Los Angeles**　　　　　　　　　　　　　　**Exp. Grad: June 2021**
**Electrical Engineering, B.S.**　　　　　　　　　　　　　　　　　　**Cumulative GPA: 3.94**
- Current Coursework: Logic & Design of Digital Systems, Differential Equations
- Relevant Courses: Internet of Things, Introduction to Computer Science I & II (data structures and algorithms, C++), Physics: Electricity and Magnetism, Linear Algebra
- UCLA Regents Scholar: top 1.5% of undergraduates
- UCLA EE Fast Track Class of 2021 (honors program)

## SKILLS

- C++, MATLAB, Arduino, Eclipse
- Soldering, Woodworking, Solidworks

- Excel, Adobe Illustrator, Photoshop, LaTeX

## RESEARCH

**Algorithmic Research in Network Information Flow Lab**　　　　　**June 2018 - August 2018**
- Studied and analyzed secure capacity of wireless data transmission using 1-2-1 networks.
- Used MATLAB to explore and implement various schemes of choosing paths for optimal information transfer within 1-2-1 networks, factoring in presence of wiretapper and path relationships.
- Compiled research into visual aid that won "Best Poster" at the Summer Undergraduate Scholars Program 2018 Poster Symposium.

## PROJECTS

**Line Guided Arduino Car**　　　　　　　　　　　　　　　　　　**March 2018 - June 2018**
- Assembled a car capable of sensing a black line on the floor using IR transmitters and receivers.
- Programmed Arduino to read from IR receivers and translate to car movement along the line.

**Maze-Solving Arduino Car**　　　　　　　　　　　　　　　　　**March 2018 - June 2018**
- Worked with a team of three to build car capable of maneuvering walls and solving a maze on its own.
- Through the course of the project, designed a PCB in EAGLE, programmed Arduino, and soldered components of car.

**Chetyris**　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**May 2018**
- Coded a variation of *Tetris* in C++ that utilized various data structures, recursion, and inheritance.

## LEADERSHIP

**Resident Assistant**　　　　　　　　　　　　　　　　　　**September 2018 - Present**
- Enforce University Housing rules while supervising the mental and physical health of students in dorms.
- Work with other staff members to put on programs for the benefit of residents' professional, social, and educational development.
- Facilitate positive social interactions between and promote the sense of community amongst residents.

**UCLA Regents Scholar Society: Activities Director**　　　　　　　**May 2018 - Present**
- Plan and execute events for the purpose of building community within the UCLA Regents Scholar Society.

**MentorSEAS**　　　　　　　　　　　　　　　　　　　　　**September 2019 - Present**
- Serve as a guide to UCLA Engineering to first year electrical engineering students.