

Nikki Woo

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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, Computer Organization
- 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 (honors program), HKN (ECE honor society), TBP (engineering honor society)

SKILLS

- C++, MATLAB, Arduino, Eclipse
- Excel, Adobe Illustrator, Photoshop, LaTeX
- Soldering, Woodworking, Solidworks

RESEARCH

Algorithmic Research in Network Information Flow Lab

June 2018 - August 2018

- Analyzed secure capacity of wireless data transmission using 1-2-1 networks.
- Implemented various schemes of choosing paths for optimal information transfer within 1-2-1 networks via MATLAB, 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

- Built a car capable of maneuvering walls and solving a maze on its own within a team of three.
- Designed a PCB in EAGLE, programmed Arduino, and soldered components of car.

Chetyris

May 2018

- Developed 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 2018 - Present

- Serve as a guide to UCLA Engineering to first year electrical engineering students.