

# SERENE KAMAL

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U. S. Citizen ■ serenekamal@ucla.edu

## EDUCATION:

University of California, Los Angeles  
Electrical Engineering, B.S.  
EE Fast Track Program (Honors Program)

GPA: 3.61  
Expected Graduation: June 2020  
Dean's Honor List

## TECHNICAL SKILLS:

C++ | Java | Arduino | Eagle CAD | PCB Design | Linux | Soldering | Oscilloscope

## WORK EXPERIENCE:

***Engineering Intern at Northrop Grumman Corp, Redondo Beach*** June 2017 – Sept 2017

- Performed R&D simulations of new requirements for aircraft multi-domain communication (OMS)
- Develop and standardize a FRACAS troubleshooting procedure for project acceptance testing
- Analyzed under-performing radar data and verified customer requirements for radar software

## PROJECTS:

***Line-following Robot Project*** April 2017 – June 2017

- Designed, built and programmed a line-following car with a partner that won a competition for the fastest time
- Integrated infrared sensors and coded a PID (proportional integral-derivative) feedback control algorithm

***IEEE Advanced Projects, Team Member*** Sept 2016 – June 2017

- Designed a quadcopter with Eagle PCB Design and assembled using SMD surface mount soldering
- Developed expertise in embedded system design, programming with Arduino, and debugging
- Used Serial, SPI and radio to communicate between two microcontrollers

***IEEE Open Project Space*** Sept 2016 – June 2017

- Designed, assembled and programmed a successful maze-traveling Arduino robotic car with a team
- Practiced soldering and coding through individual circuit projects, including a mini piano and a memory game

## COURSEWORK:

Current Coursework: Systems and Signals, MATLAB, Logic Design of Digital Systems, Differential Equations, Research

Past Coursework: Intro to EE, Physics (Mechanics, E & M, Electrodynamics, Optics), Multivariable Calculus, Computer Science I and II, General Chemistry, Physics Lab

***"Internet of Things" Hands-on Seminar*** Sept 2016 – Dec 2016

- Designed a motion sensor and programmed using the Intel Edison platform with a team
- Gained experience with wireless networking technology, distributed systems, and embedded system software

## LEADERSHIP EXPERIENCE:

***Secretary, IEEE at UCLA*** May 2017 – present

- Facilitate and publicize club activities as part of the Administration Board to improve member participation
- Publish a weekly newsletter, mentor younger members and record meeting notes

***President, Arcadia HS Peer Tutoring and Outreach*** Aug 2014 – June 2016

- Organized recruitment, led interviews, handled disciplinary actions, supervised 80 tutors, and tutored students
- Maximized efficiency by coordinating with the officer team and providing direction for the organization

## ACTIVITIES:

Secretary – IEEE (Institute of Electrical and Electronics Engineers)

MentorSEAS at UCLA

WE Academy (Women in Engineering) at UCLA

SWE (Society of Women Engineers)

ASC (UCLA Alumni Scholars Club)