# Anisha Nakagawa

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## EDUCATION

**OLIN COLLEGE OF ENGINEERING** | May 2018
BS in Electrical and Computer Engineering, 3.9 GPA

**CAMBRIDGE RINDGE AND LATIN HIGH SCHOOL** | 2014
Valedictorian, 4.0 unweighted GPA, First Honors

## EXPERIENCE

**DRAPER LABORATORY** | Software Engineering Intern
May 2015 - Aug 2015
- Designed and developed a web-app and Google glass app to display dynamic visual cues, using human-centered design techniques
- Created web-app to receive signals asynchronously through a WebSocket
- Developed android application, interfacing with embedded sensors

**CUETHINK** | Technology Specialist Intern
Jul 2014 - Sept 2015
- Created and executed quality assurance test plans, worked on web development, evaluated product effectiveness

**DRAPER LABORATORY** | Summer Research Intern
Jul 2013 - Aug 2013
- Implemented path-planning and navigation algorithms on robot, using ROS
- Interfaced with graduate students' work, evaluated success, presented results

**OLIN COLLEGE** | Teaching Assistant
Jan 2015 - Dec 2015 | Courses: Linearity 1, Modeling and Simulation

## PROJECTS

**NATURAL RESOURCE MODELING** | Independent Study - 2016
Studied different mathematical models for modeling resource use, especially in the context of agriculture and food systems. Researching a system and constraints, in order to design and implement a mathematical model.

**NEWS ARTICLES SENTIMENT ANALYZER** | Software Design - 2015
Created algorithm to compare news sources using sentiment analysis of articles, to highlight trends and determine bias.

**REFUGEE DATA VISUALIZATION** | Data Visualization - 2015
Displayed dynamic and interactive map of refugees moving around the world over time, from UN data.

**RECIPE-FINDER PROGRAM** | Software Design - 2015
Created web-app to search database of recipes with Mongo DB, filter by user specifications, and interface with web GUI with Flask.

**MODELING WOLF POPULATIONS** | Modeling and Simulation - 2014
Modeled the effect of re-introducing wolves into the Yellowstone ecosystem, and changes in elk and aspen populations. Validated the model with data.

**COLOR-CHANGING CHAMELEON TOY** | Design Nature - 2014
Designed game experience using biomimicry. Controlled color-changing LEDs using ATMega328 microcontroller (programmed with Arduino).

## SKILLS

Languages
Java, Python, C++, C (Arduino), MATLAB, HTML, CSS, Javascript
Tools
Git, LaTex, COMSOL, Mathematica
Platforms
Arduino, Raspberry Pi, Android (Google glass)

## RELEVANT COURSES

Olin College
- Software Design
- Modeling and Simulation
- Data Visualization
- Sensors, Instrumentation, and Measurement
- Electricity and Magnetism
- Principles of Engineering
- Signals and Systems

Harvard University
- Multivariable Calculus
- Linear Algebra and Differential Equations

## LEADERSHIP

**NET IMPACT BY DESIGN**
Vice-President,
Electrical Subteam Co-Leader
Created new chapter to promote engineering build projects with a social or environmental impact. Leading the research and design for the electrical system of an aquaponics ecosystem.

**SUSTAINABILITY CLUB**
Co-President
Included in periodic meetings with college CFO, Head of Facilities, and Sustainability Steering Committee. Promoting on-campus sustainability through initiating reusable mugs program and drying racks programs.

## AWARDS

- Education First Environmental Challenge Winner (attended Global Student Leaders Summit in Costa Rica)
- SWE Scholarship Recipient
- National Merit Scholarship Recipient
- Harvard Edward Kingman Scholarship Recipient