

Niraj Ganesh

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Academics

University of California, Berkeley

Graduated: May 2020

Bachelor of Science: Industrial Engineering and Operations Research
Commencement speaker selected by Berkeley Engineering Dean's Office

Relevant Coursework: Industrial Design and Human Factors, Product Development, Visual Communication and Sketching, Industrial and Commercial Data Systems, Machine Learning, Engineering Statistics, Quality Control

Work Experience

Co-founder at Velocitee Labs

May 2020 – present

Velocitee Labs is an IoT company focused on making motorcycle riding safer

- Member of Berkeley SkyDeck's Fall 2020 HotDesk Incubator program
- Wrote Django framework code for web platform and utilized Heroku to create a production ready web application
- Designed pitch decks, company logo, promotional graphics, websites to improve marketing of the company

Research Intern, UC Berkeley/ UC San Francisco Ergonomics Program

May 2018 – January 2020

World-renowned research group focused on improving the workforce through public health and engineering

- Developed a robot arm apparatus to conduct quality control tests on 100 activity trackers
- Designed and built testing rigs to ensure accurate measurement tracking of activity trackers
- Prototyped, tested 25+ exterior cases designs, 10+ battery types (varying power), and 3 different haptic motors

Project Work

IEOR 170: Industrial Design and Human Factors

- Developed a novel solution to mitigate the risk of musculoskeletal injury while using an ultrasound machine over a prolonged time
- Designed prototype mockups as well as aided in gathering user feedback

IEOR 142: Introduction to Machine Learning and Data Analytics

- Aided in designing and performing model testing in R on dataset containing over 2,000,000 data points to predict the median housing price based on zip code
- Composed Python code to scrub data to find the zip codes for the metropolitan statistical areas which resulted in acquiring over 10,000 unique zip codes to figure out the factors that lead to higher costs of living

Leadership

President of Engineering Student Council (ESC) at Berkeley

May 2018 – May 2020

- Developed an Undergraduate Equity and Inclusion Committee with Berkeley Engineering's Faculty Equity and Inclusion Council and five student identity organizations
- Founded initiative that provided free menstrual products to 8 womxn identifying restrooms, programmed a web tool to streamline restocking, led external partner outreach, and secured \$40k in products
- Managed budget of \$84k and team of 30; negotiated a \$10k increase from campus student government

Board Member of Pioneers in Engineering Foundation

September 2016 – present

- Led and organized the 2017 kickoff event of the robotics season for low income, underrepresented minority high school students with more than 200 people in attendance from 21 high schools across the Bay Area
- Mentored a team of 13 high school students competing in the 2017 Pioneers in Engineering Competition

Skills

Programming Languages: Python, HTML5, CSS, SQL, Javascript, MATLAB, C++

Design: Solidworks, Autodesk Fusion 360, Adobe Illustrator, Canva, Framer

Application Software: PLEX ERP (Application Specialist Certified), Salesforce Lightning, MS Office Suite, MS Access

Other: Clarinetist, Taekwondo Black Belt