

Kartikye Mittal

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Expected Graduation: May 2020

Relevant Courses: Artificial Intelligence, Interactive Device Design (Graduate Course), Machine Structures, Data Structures, Introduction to Data Science, Designing Information Devices & Systems (EE), Embedded Systems, Integrated Circuit Design, Prototyping & Manufacturing, Sketching & Visual Communication, User Interface Design

Major GPA: 3.7

WORK EXPERIENCE

X, THE MOONSHOT FACTORY Formerly Google [X] (Engineering Intern)

May 2019 - November 2019

Tackled a complex generative design problem using novel deep learning methods, as well as classical stochastic search (genetic algorithms) and on a Google scale platform

UPWORK (Software Engineering Intern)

May 2017 - August 2017

Automated the freelancer on-boarding process by connecting the system to JIRA using its apis

Used machine learning to build a document classifier used to verify and validate documents uploaded by users to automate a previously manual process

PUMPKIN INC (Software Engineering Intern)

June 2016 - August 2016

Built a GUI using Node.js and Angular.js to display satellite information in a user friendly manner

Designed a ReST API in Flask to allow developers to access and control satellites through HTTP calls

STANFORD UNIVERSITY SPACE SYSTEMS DEVELOPMENT LAB (Research Intern)

September 2015 - December 2015

Worked with Professor Andrew Kalman to complete, test and debug the flight software on an embedded system in C for Stanford's satellite 'Discovery'

SELECTED PROJECTS

SASSAT SATELLITE

December 2014 - December 2016

Designed the Printed Circuit Boards and structures for 'SASSat', a 5cm-cubed satellite with a payload including a camera and a temperature sensor

GOOGLE GLASS AS A ROBOT CONTROL INTERFACE (Research Intern)

July 2014 - December 2014

Conducted Research with Professor Chen I-Ming to create a system allowing the Glass to control robots used to help children with autism

Presented the project to a Google X team based in California and garnered positive feedback

LOTUS RING

August 2017 - December 2017

Developed and designed a working prototype of a ring mounted device to control Augmented Reality systems which eased file and web browsing

h[AI]ku (Collaboration with Purin Panichphant)

Developed an interactive art piece that uses AI and ML to generate haiku's in real-time based on user input

The piece has been exhibited at the Exploratorium in SF

OTHER INFORMATION

CAL A.S.T.R.O (Co-Founder)

January 2017 - Present

Founded a club that promotes Astronomy as a hobby in the UC Berkeley community

CAL SAILING (Sailor)

June 2016 - Present

Competed in regattas in the pacific coast conference

ONE DEGREE NORTH ROBOTICS (Team Captain)

August 2012 - June 2016

Helped found the high school team and as captain, grew it to become a regular participant in international competitions

PERMANENT RESIDENT STATUS, USA