

# TANVI PATI

## ELECTRICAL ENGINEERING

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### EDUCATION

#### University of California, Los Angeles

Bachelor of Science in Electrical Engineering, GPA: 3.04

September 2017 - June 2021

#### GEMS Modern Academy, Dubai, U.A.E.

Indian School Certificate (ISC) Examinations, Percentage: 96.75%

April 2012 - May 2017

#### Harvard Secondary School Summer Program

'Intro to Theoretical Physics' and 'Principles of Microeconomics'

June 2015 - August 2015

### EXPERIENCE

#### Laboratory for Embedded Machines and Ubiquitous Robots (LEMUR), UCLA

Undergraduate Research Student

June 2018 - October 2018

- Found applications of paper robots in education. Worked with a lab partner to design various paper robots, used the NodeMCU, coded on Arduino and made lesson plans that tie in middle school level Math and Science concepts.

#### IEEE, UCLA

Member of OPS

October 2017 - June 2018

- Worked on breadboarding, through-hole and SMD soldering projects. Used the Arduino Nano for various projects and EAGLE for PCB design. Collaborated with a team of three to build a maze-solving rat using PCBs, IR sensors and Arduino.

#### MentorSEAS, UCLA

Board Member

December 2017 - Present

- In charge of Branding and Design: designed posters, flyers, t-shirts, facebook cover pictures and presentations.
- Developed new ways to make the mentorship program in the UCLA Engineering School more successful.

#### Young Entrepreneurs Competition, Dubai, U.A.E.

Marketing Head

March 2016

- Spearheaded a supply chain venture distributing personalized stationery products from international vendors to local consumers. Implemented various marketing strategies through extensive use of social media and distribution of pamphlets, which resulted in a 60% return on investment.

#### Procter & Gamble, Dubai, U.A.E.

Intern - Finance Department

July 2016 - August 2016

- Involved in budgeting, sales forecast and analyzing data of sub-brands for the Middle East market.

### HONORS

- Fast Track Program, Electrical and Computer Engineering Department, UCLA - only international student among 15 students in the program.
- Member of Alpha Lambda Delta and Phi Eta Sigma National Honors Societies.
- Highest score in ISC Examinations for Math (100%) and English (97%).
- Big Idea Middle East Education Award - Exceptional Achievers Award, 100% in a Subject Award.

### SKILLS

- **Python 3** - Intermediate, In-class projects
- **C++** - Intermediate, In-class and Arduino projects
- **Arduino** - Path-following and maze-solving robots for 'Intro to EE' and IEEE OPS
- **Soldering, breadboarding, EAGLE** - IEEE OPS.
- **Languages:** Fluent in English and Hindi, read and write French.

### RELEVANT COURSES

- UCLA: Intro to EE, Intro to Engineering Design: Internet of Things, Intro to CS, Single/Multivariable Calculus, Infinite Series, Mechanics, Oscillations, Waves and Electromagnetic Fields.
- GEMS Modern Academy, Dubai, U.A.E.: Physics, Mathematics, Chemistry, Economics, English.
- Coursera: Internet of Things - how did we get here? - By University of California, San Diego.

### EXTRACURRICULAR ACTIVITIES

- **IEEE WATT, UCLA:** Mentorship Program
- **Odissi (Indian Classical Dance):** trained and performed for around 7 years. Performed (solo and group) and choreographed for the Indian Student Union's Culture Show.
- **Music:** Part of GEMS Modern Academy's Advanced Trinity, received Distinction and highest scores in U.A.E.
- **Tennis:** inter-house competition, organization and participating.
- **Volunteering:** Al Noor Training Centre Dubai, Special Needs ( SEN ) Program in high school, The Old Library, Volunteer Day, Bruin Day and Engineering Day volunteer.