

Tanmay Kant

Pleasanton, California | Urbana-Champaign, Illinois

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ECE @ Grainger College of
Engineering, UIUC

EXPERIENCE

Cisco | San Jose — High School Intern

JUNE 2019 - JULY 2019

Learned extensive skills in computer networking through lectures, self-studying, and hands-on customer data handling

Worked under one of Cisco's Cybersecurity (CX) teams to design and execute a cumulative project

The program facilitated anonymous communication within our team to improve feedback on other programs without association of unique identifiers of the individuals giving reviews

Citizen Schools | San Jose — Volunteer Teacher

FEBRUARY 2019 - MAY 2019

Created and taught a STEM curriculum (named Everyday Engineering) to a class of thirty under-served middle school students

Concluded the program with students highly motivated to understand different engineering topics and build their own projects and futures

PROJECTS

LLWC, AIL Redesign, HCCD Testing — Illini Formula Electric

- Low-Latency Wireless Communications (LLWC): Implementing a reliable wireless communication system that can relay information off the car during operation using embedded programming (Fall-Winter 2020)
- Accumulator Indicator Light (AIL) Redesign: Applying PCB design and simulation skills in Altium to develop a new indicator for when the battery output on the car is greater than 60V (Winter 2020)
- High-Current Cell Discharge Testing (HCCD Testing): Applied circuit design and Arduino to programmatically control and record the currents and voltages in high-current cells while discharging (Fall 2020)

Tactile Smartboard — Honors Lab ECE120/110

Working on developing a "smartboard" by applying CAD, G-code, C, Arduino, and respective mechanical and electronic hardware skills to create a CNC-style robot that has the ability to save, sync and restore writing, while preserving the tactile experience that blackboards and whiteboards provide (Fall-Winter 2020)

Logichat — Cisco High School STEM Internship 2019

Used HTML/CSS/JS and Node.js/AWS/MongoDB/ExpressJS/PubNub to develop a scalable anonymous web-based chat application named Logichat (Summer 2019)

EDUCATION

University of Illinois at Urbana-Champaign

Computer Engineering B.S.
Graduating May 2024

Quarry Lane School, California

Dean's List - 3.7UW/4.3W GPA
Graduated May 2020

COURSEWORK

- Introduction to Computing
- Introduction to Electronics
- Multivariable Calculus
- University Physics: Mechanics
- Automotive Design Projects
- Engineering Orientation

SKILLS

Experienced:

- HTML, CSS, JavaScript
- Android, Java, C
- Network Protocols, Wireless Communication, GitHub
- Electrical Experience, CAD, Leadership

Familiar:

- Node.js, React.js
- PCB Design, Circuit Analysis
- G-code, CNC Fabrication

AWARDS

Eagle Scout - Troop 120, National Outdoor Award for Camping, Philmont Trek Award

National Merit Finalist and Semifinalist - Scored in the top 1% on the PSAT, applied and met additional NSMC requirements

AP Scholar with Honor

LANGUAGES

English, Spanish, Hindi