Devin Patel

Computer Science and Engineering, B.S.

- 25 July 1997
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About me

I am currently a Full Stack Engineering Intern at Chaparral 300 and a full time student at the University of California, Irvine, graduating in June 2019. I am well versed in various technical aspects in both the computer software and computer hardware industries. Current passions include embedded systems, machine learning, and computer vision.

Skills

OpenCV / Machine Learning

Python

Node-RED

C / C++

SQL / mySQL

System Verilog

HTML / CSS

education

2015-2019	Compter Science and Engineering, B.S.
	University of California, Irvine
2011-2015	High School Diploma
	Yorba Linda High School

awards

2015-2018 Dean's Honor List
- Attained various quarters under the Henry Samueli School of Engineering by hving a GPA of 3.5 or higher

2015 Crimson Level Scholar
- Earned by having a GPA of 3.5 or higher, for completing at least 8 AP or Honors Courses, and for completing at least 100 recorded hours of Community Service

2015 National AP Scholar
- Granted to students who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams

work experience

2017-Now Full Stack Software Engineering Intern   Chaparral 300
- Integrate legacy PLC's, IR sensors, IP cameras, and various other devices via proper networking and ethernet I/O modules
- Use OpenCV to track bowling balls' trajectories down a lane and measure speed accurate to 3.33 milliseconds
- Use Node-RED to develop a local networked based PLC (using modubs, HTTP post/get requests, TCP/UDP requests) for a fully interconnected system to control bowling game machines
- Design and solely code a fully functional mySQL database with proper keys, constraints, triggers, and procedures

2016-2017 Community Assistant   Vista del Campo Norte
- Created community engaging and career building programs for residents to promote self-growth and raise awareness of various on campus resources
- Facilitated relations between clients and administrative staff to run day-to-day operations
- Responded to spontaneous, emergency situations when on call
- Operate the apartment community's front desk, assisting walk-ins, taking phone calls, and providing property tours

technical experience

Python   Facial and Gesture Controlled Drone
- Use OpenCV haar cascades to identify and track facial and pupil movements to additionally steer the drone.
- implement several safety featuers such as return to takeoff spot

Sys Verilog   RISC-V Single Cycle Processor
- Single cycle processor that follows the RISC-V instruction set
- Has several modules such as Datapath, Controller, ALUController, ALU, RegFile, DataMemory, Mux2, Mux4.

C   Embedded Alarm Date and Time Clock
- Embedded Software project using C and Atmel ICE programming
- Uses an LCD for output and keypad for time and date change inputs
- Plays alarm songs out loud when an alarm goes off