

CHINMAY VIJAY PURAV

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DATA SCIENTIST

Data Scientist who is creative and enjoys problem solving. I have an academic background in Electronics and Embedded Systems., with particular interest in medical technology. My passion for being able to use available information for solving problem solving has assisted me in the transition.

ACADEMIC PROJECTS

- **Development of Electro-active ocular lens (EAOL)** (Present): Literature review to study the background of EAOL. In the second half of the project, 3 designs of EAOL will be analyzed in depth.
- **Health Monitoring System** (2018): Developing a system to measure body temperature, oxygen saturation and heart rate. Components used were LM35, and MAX30100 sensor. It was developed on TM4C123G launchpad which has ARM-Cortex M4. The language used was Embedded C. The peripherals I worked on were ADC, uDMA, and I2C.
- **Arithmetic Logic Unit** (2018): ASIC implementation of sequential ALU using Verilog.
- **Detection of Nutrition Deficiency in Plants** (2015): Using an optical sensor to determine the reflectance spectrum which was in turn to analyze the nutrition deficiency in plants along with the derivative. The Arduino Uno board was used and was programmed in LabVIEW.
- **Matrix Multiplier** (2015): Developed a 32x32 matrix multiplier using VHDL, implemented on Xilinx Spartan-6 FPGA device.
- **Designing an Electric Power Station for a Mars Research Colony** (2014): Studied existing power generation technologies with their specifications in relevance to survival on Mars. It was a group project and I worked on Solar power; finding the place with maximum solar energy for the base along with the solar panels which could potentially be used.
- **Humanoid Robot** (2012): Build a miniature humanoid robot doing basic actions using C++

LANGUAGES

Python, LabVIEW, C, Verilog, VHDL

EDUCATION

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| Data Science Immersive | San Francisco, Present |
| Master of Science in Embedded Electrical and Computer Systems [CGPA: 3.71/4.0] | SF State University, Present |
| Master of Engineering in Electronic (Hons) [GPA 3.0/4.0] | University of Nottingham, UK, 2015 |
| Higher National Diploma in Electrical and Electronic Engineering [GPA: 3.8/4.0] | Uxbridge College, London, 2012 |

EXPERIENCE

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| ResLife, San Francisco State University Residential Services Assistant | San Francisco, CA, June 2018 – Sept 2019 |
| ▪ Staffed and facilitated the customer service operations for 24/7 community desks | |
| Bonne Sante Meditech LLP Research Assistant (Internship) | Pune, India, Aug 2016 – Apr 2017 |
| ▪ Assisted in designing probes for the electro-chemotherapy. ▪ Researched and studied into the current electro-chemotherapy devices while assisting in designing the same. | |
| Uxbridge College, Uxbridge Electrical/Electronic Lab Technician (Part Time) | London, UK, Oct 2011 – May 2012 |
| ▪ Assisted in setting up the lab for lectures and supervised the final year students working in the lab | |