



GHANENDRA SINGH

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DOB: November 22, 1994

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Education

IIIT Delhi

Mtech(Computational Biology)
2019 – 2021

CGPA: 7.1

Sapthagiri College of Engineering, Bangalore

B.Tech(ECE)
2012 – 2016

Percentage 70

Kendriya Vidyalaya No. 2 Jalahalli East, Bangalore

CBSE
2010 – 2012

Percentage:81.6

Kendriya Vidyalaya No. 2 Jalahalli East, Bangalore

CBSE
2008 – 2010

CGPA: 9.2

Skills

Expertise Area

Python, Embedded C, Embedded Prototype Design

Programming Language

Python, Matlab, Embedded C, C++, Java

Tools and Technologies

Pytorch, Brian2, Jupyter, Jetson Nano, Shell Scripting, CUDA, HPC, ARM Cortex M4 MCU Programming, Raspberry Pi, Arduino, Code Composer Studio, EagleCad - PCB Design and Layout, MSP432, Android Studio, ESP32, PyCharm, OpenCV, Bluetooth Low Energy, Matlab

Technical Electives

Computational Neuroscience, Mathematical Biology, Drug design, Computer Vision, Algorithms in Computational Biology, Cell Biology and Biochemistry, Modern Biology, Research Methods, OOP and Design

Internship

Ti2 Technologies, Bangalore (Industrial)

Fully Automatic Dough Sheeter machine - Reva Engineers, Peenya
Developed a GUI using python Tkinter. Interfaced with hardware like raspberry Pi, Arduino and VFD for running Industrial motors

(Jul,16 –Oct,16)
Team Size: 3

Gamasome Interactive Bangalore (Startup)

Real time facial motion capture system Designed and developed a complete prototype along with motion capture helmet hardware and software for a startup.

(Nov,16 –Feb,17)
Team Size 3

Projects

Research Fellow, IIT Delhi (Academics)

Guide: Jyoti Kumar

Designed an RF based Bluetooth PCB using Texas Instruments CC2640 to measure ambient light using TI's OPT3001, 2 lead ECG hardware prototype to measure heart rate using TI's AFE ADS1292 IC

(July,17 – June,18)
Team Size-3

Abstract Studios (Startup)

(Jul,18 – Apr,19)

Developed a hardware and an android application to gather real time strokes data of doctor's handwriting from a digital pen and board.

(Oct,18 – Apr,19)
Team Size-2

Positions of Responsibility

- TA Cognitive Psychology (Jan,20 - May,20)
- TA Computational Gastronomy (Aug,19 - Nov,19)
- Student Council Member IIITD (Aug 19 - Present)
- Bio Belt Ambassador Synbiobeta (Sep 19 - Apr 20)
- Co-Founder Abstract Studio (Oct 18 - Apr 19)
- Research Fellow in Design (May,17 – June,18)
- Prototype Designer Intern (Nov,16 – Feb,17)
- Embedded Developer Intern (Jul,16 – Oct,16)

Awards and Achievements

- ICRTB International Conference on Recent Trends in Bioengineering Pune, Jan 2020
- ACM Winter School High Performance Computing IIT Kanpur Dec 2019
- Workshop - Scfbio Bioinformatics and Computational Biology - IIT Delhi May 2019
- Machine Learning - Engineering and Science Applications - Nptel course April 2019
- Designed Bluetooth controlled Robot and won competitions in various college fests 2016
- HackIndia- Winners, We designed a haptic feedback glove to get a feel in VR - 2015

Interests and Hobbies

- Traveling, Reading Books
- Psychology, Neuroscience, Biology
- Artificial Intelligence, Synthetic Biology, Quantum Computing

Declaration: The above information is correct to the best of my knowledge.

Ghanendra

June 24, 2020