

Sanchit Tanwar

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Positions Held

General Secretary 2018 - Present

IETE

General Secretary Managing day to day work of thapar chapter of nationwide technical society of electronics and communication. I also mentor 24 students under me. IETE, Patiala— Mentor

Technical Head 2017-08 - 2018-04

IETE

I arranged workshops on several stuffs such as arduino and its peripherals. I also volunteered to mentor 15 students through their freshman year for technical stuff we taught in workshops. Elementos, Patiala— Technical Head

Technical Head

Elementos - 2018

Technical head of a week long tech fest of robotic, electronics. I also managed a hackathon competition in the same fest.

Education

B.Eng 2016 - 2020

Thapar Institute of engineering and technology

Electronics and communication

CGPA - 8.1/10

High School 2015 - 2016

DAV Public School

Percentage: 90.2

Secondary School 2012 - 2013

Birla Public School Pilani

CGPA - 9.4/10

Projects

- **Neural Style transfer** - Artistic style transfer using vgg16 transfer learning and
- **Attention Detection** - Detecting attention of students using face and implementing it on online courses such as provided by udacity.
- **Image Classifiers** - Image classifiers of dog breed, handwritten digits, fruits, flowers etc based on CNN.
- **Line follower using PID** - Used PID algorithm to make line following robot.
- **Seed sowing bot** - Made a seed sowing robot using servo motors and sensors which put seeds in pits whenever detected.
- **Home Automation** - Home automation project using IOT and sensors. Used cayenne IOT platform and node mcu as hardware.

Skills

- Language - Python, C++, Matlab
- Deep Learning - Pytorch, Tensorflow, Keras
- Robotics - Arduino and peripherals, Raspberry pi, Vrep(simulation tool)
- Electronics - Embedded system
- Other Skills - Image Processing (opencv), Git

CourseWork

- Move37 (reinforcement learning)
- AI for Robotics (Udacity)
- Linear Algebra (MIT)
- Digital Signal Processing
- Image processing(Udemy)
- AVR(Netmax chandigarh)
- Microprocessor
- Computer Architecture
- Deep learning(deeplearning.ai, cs231n, deep learning in pytorch(udacity))
- Machine learning(Udemy)

Achievements

- Winner of two competitions in Elementos technical fest
- Stage 2 of eyantra(IIT bombay robotics competition) cleared
- Conducted workshop on Sensors, arduino for freshers in college.
- Finalist in Line follower competition saturnalia(annual fest thapar university)
- Ranked ~500 in kaggle MNIST competition with accuracy- 99.50%
- Student Achievement Award - IETE

Interests

- Robotics
- Deep learning
- Deep reinforcement learning

Additional Information

- Effectively Work in team
- Enthusiastic about always learning and improving my skills.
- Logical Approach