



EDUCATION

PROGRAM	INSTITUTE	MARKS	COMPLETION
-BTECH (Electrical and electronics)	NIT CALICUT	7.05(CGPA)	2021
-AISSCE(XII)	ST.ANTONY'S PUBLIC SCHOOL	95.6%	2017
-AISSE(X)	JNV TRIVANDRUM	96%	2015

WORK EXPERIENCE

ROBOTIC INTEREST GROUP | Electronics Coordinator

- Mentoring Electronics project and handling stock of all electronics components in mechatronics lab.
- Mentored 2 Students in Projects
- Taught Arduino-C++ coding to more than 400 first year students during workshop

AMPC-TATHVA'19 | Committee Head

- (Anand memorial project competition)
- Lead and guided a team of First year freshers to make projects on annual Tech Fest of NIT Calicut-Tathva'19.
- Mentored and taught about 40 students (10- Teams) on lot based projects

PROJECTS

3 Way Adjustable Bed with Blink detection enabled control for paralyzed patients

- A bed with actuators powering 3 way adjustment and controlling through Android app, Blink Detection and remote .
- Applied for **Patent**
- Brief documentation : <https://bit.ly/34Dr7tw>

CONTROLLING HUMANOID USING HUMAN POSE DETECTION(Ongoing)

- By Improvising 2D human pose detection algorithm (Tensor flow -pose estimation,alpha-pose estimation, Vnect)
- Using a single camera
- Realised through Unity or Vrep simulation

COMPUTER VISION ALGORITHMS INTO PYTHON CODE

- Concepts like Retinex Algorithm, Water shed Algorithm, Morphological Noise removal, Histogram equalisation .
- Using OpenCV library and Matplotlib
- Codes available in github : <https://github.com/sreyasis>

SKILLS AND TOOLS

Programming languages: C, C++ , Python

Frameworks & Tools: Node.js, HTML, CSS, Bootstrap.

IoT Platforms and

Microcontrollers: Arduino and Ide, RaspberryPi, NVIDIA JETSON TX2, NodeMCU, Wemos, PIC

Microcontroller-Assembly language, Atmel Microcontrollers.

Concepts : OOPS, Data Structures, Neural Networks, Image Processing and OpenCV, Responsive Web Development with backend, Advanced IoT Applications, Networking concepts.

Electrical Engineering : Circuit Board Designing and making, Motor And driver circuits, Buck-Boost converters.

CREATIVE SKILLS

VIDEO EDITING : Motion Graphics Using ADOBE AFTER EFFECTS, Video Colour correction and editing using ADOBE PREMIER PRO

UI/UX/POSTER : UI/UX Using ADOBE XD and FIGMA, Photo editing and graphics design using ADOBE PHOTOSHOP.

WRITING: Story board writing

LANGUAGES

ENGLISH: Working proficiency

Malayalam: Full proficiency

Hindi : Medium proficiency

HOBBIES

Gaming, Badminton, Cricket, Web Design Freelancing, Video editing Freelancing, Traveling