

SUNDAR SRIPADA V S

[Website](#) [Email](#) [LinkedIn](#) [GitHub](#)

EDUCATION

- **Sri Sivasubramaniya Nadar College of Engineering, Anna University** Chennai, India
Bachelor of Engineering in Electronics and Communication; GPA: 8.64/10 July 2016 – July 2020
- **Sri Sankara Vidyashramam Matriculation Higher Secondary School** Chennai, India
High School Certificate (HSC, Class 12); Percentage: 98% June 2015 – April 2016

EXPERIENCE

- **TechClub, Department of ECE, SSN College of Engineering** Chennai
Domain Head of Robotics and Computer Vision June 2019 - Present
 - Conducting weekly sessions on introductory robotics and computer vision concepts
 - Organizing intra/inter-collegiate technical events
 - Mentoring sophomore and junior students with their projects and subjects
- **Indian Institute of Technology - Madras** Chennai
Summer Research Fellow May - July 2019
 - Worked on the computer vision module of surgical navigation systems
 - Estimated the location of a tool tip of a drill bit used in Image-Guided Surgery (IGS)
 - Formulated a report with the guidance of Dr. Ramya Balachandran
- **R&D Center, BHAVINI** Chennai
Project Intern December 2018 - February 2019
 - Used linear actuators to build a wall-climbing robot in 1D
 - Utilized electromagnets to enable climbing on ferromagnetic surfaces
 - Drafted a report with the guidance of Dr. S. S. Biswas

PROJECTS

- **Object Tracking in Unmanned Aerial Vehicles** [Project Repository](#)
Undergraduate Final Year Project September 2019 - Present
Comparative study of state-of-the-art object tracking algorithms used in unmanned aerial vehicles.
- **Deploying ORB-SLAM in a mobile robot** [Project Repository](#)
SSN Internally Funded Research Project January 2019 - Present
Deploying monocular ORB-SLAM in a mobile robot using Raspberry Pi and Pi Camera V2.
- **Probe Calibration for Image-Guided Surgery** [Project Repository](#)
Summer Research Fellowship, IIT-M May - July 2019
Calibrated the tool tip of a drill bit used in Image-Guided Surgery (IGS) and tracked its location in real-time.

HONORS AND AWARDS

- Received Merit Scholarship for Freshman Year 2016-17 (September 2016)
- Runner Up at FlytBase Hackathon (September 2018)
- Runner Up at IEEE Make-a-thon (January 2019)
- Winner at HackerSpace Hackathon (February 2019)
- Certification of Merit at Technology, Management and Ethics Seminar (February 2019)

SKILLS AND RELEVANT COURSEWORK

- **Languages:** Python, C++, MATLAB, C, Bash **Frameworks** (familiar): ROS, Keras, Tensorflow, Pytorch
- **Robotics:** Robotics and Automation (Undergrad), University of Freiburg - Introduction to Modern Robotics by Wolfram Burgard
- **Deep Learning:** Coursera - Deep Learning Specialization, CS231n - CNNs for Visual Recognition by Stanford (ongoing)
- **Computer Vision:** Digital Image Processing (Undergrad), Udacity - Introduction to Computer Vision (ongoing)