

INTERESTS	Computer Vision, Mobile Robotics, Aerial Robotics
EDUCATION	International Institute of Information Technology, Hyderabad, India (IIIT-H) 2018 - 2020 M.S. by Research in Computer Science & Engineering Advisor: Dr. K. Madhava Krishna Cumulative Grade Point Average: 9.50/10 Sri Sivasubramaniya Nadar College of Engineering, Chennai, India (SSN) 2013 - 2017 B.Eng. in Electronics & Communication Engineering (ECE) from Anna University , Chennai Cumulative Grade Point Average: 7.20/10
EXPERIENCE	Mobile Robot Programming Toolkit Summer 2018 Google Summer of Code Student Developer Developed a GUI app for the extrinsic calibration of range and visual sensors. International Institute of Information Technology, Hyderabad, India May 2017 - April 2018 Research Intern in the Robotics Research Center Worked on markerless LiDAR-camera extrinsic calibration for an autonomous car. Navstik Autonomous Systems, Pune, India Summer 2016 Computer Vision Intern Developed and evaluated GPU-accelerated person tracking applications for a drone.
PUBLICATIONS	INFER: Intermediate Representations for Future Prediction 📄 Shashank Srikanth, Junaid Ahmed Ansari, R. Karnik Ram, Sarthak Sharma, J. Krishna Murthy, K. Madhava Krishna <i>In proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, 2019</i> CalibNet: Geometrically-Supervised LiDAR - Camera Extrinsic Calibration using 3D Spatial Transformer Networks 📄 Ganesh Iyer, R. Karnik Ram, J. Krishna Murthy, K. Madhava Krishna <i>In proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, 2018</i>
SELECTED PROJECTS	Dense Visual Odometry using an RGB-D Camera Fall 2017 Implemented a pipeline to estimate camera motion using non-linear photometric error minimization. Automated Stock Counting using a Quadcopter Spring 2017 Developed optic flow odometry and stock counting modules for a warehouse quadcopter. Low-Cost Flight Controller for a Quadcopter Fall 2015 Developed an 8-bit flight controller for a quadcopter using an ATmega328 and a 3-axis gyro.
RELEVANT COURSEWORK	<i>Graduate:</i> Computer Vision, Machine Learning, Mobile Robotics, Topics in Applied Optimization, Topics in Optimization on Manifolds <i>Undergraduate:</i> Robotics & Automation, Digital Image Processing, OOP & Data Structures, Computer Architecture, Probability & Random Processes, Embedded & Real Time Systems
AWARDS & GRANTS	• Best Senior Year Project , ECE Department, SSN 2017 • SSN Trust Funding for Student Projects 2014, 2015
STUDENT ACTIVITIES	• Conceived, developed, and maintained The SSN App - the official mobile app of SSN. 2014 - 2017 • Event Coordinator , SSN-ECE Tech Club 2016 - 2017
TECHNICAL SKILLS	<i>Tools & Libraries:</i> OpenCV, ROS, PCL, Matlab, Git Familiar: Qt, Android, Eagle EDA, L ^A T _E X <i>Programming Languages:</i> C/C++, Python Familiar: Java