

Vinay Lanka

Undergraduate Student

Technical Lead – IEEE VIT Student Chapter

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A 4th year Electronics and Communication Engineering undergraduate from VIT, Vellore.
An Embedded Systems and Full stack Web Developer with competencies in Robotics and IoT.
Certified Robotics Software Engineer by Udacity.
Seeking internships to apply my skills and make a positive contribution.

Experience

Intern – Toshiba Machine (Chennai) Pvt. Ltd.

May – June 2019

Co-Founder – ReTag

Nov 2018 – Oct 2019

Education

High School – Delhi Public School, Hyderabad.

2013-2017

Undergraduate – Vellore Institute of Technology, Vellore.

2017-Present – CGPA – 8.63

Personal Projects

Tnet

- Tnet is an end to end solution with a portal designed to help customers view their injection moulding machine data in an intuitive web interface.
- Uses MySQL, Node.js with Express and AngularJS. Part of my summer internship at Toshiba Machine, Chennai.
- github.com/vinay-lanka/tnet

Home Service Robot

- Fully autonomous Home servicing robot using SLAM and AMCL in ROS
- github.com/vinay-lanka/Home-Service-Robot

Raspberry Pi based colour sorter using DoBot Magician

- A colour sorter based on Computer Vision and a robotic arm with an app to show statistics
- youtube.com/watch?v=BghCrTwkOt0&t=21s

Pitch Shift algorithm using Phase Vocoder and Wavelet Transform algorithms

- github.com/vinay-lanka/Pitch-Shift-Algorithm

IoT Manipulation of a Robotic Arm (ROS)

- Implementation of an industry ready robot controller that controls the Arm remotely through a web interface. Uses MoveIt, a ROS Package for path planning and IKFast inverse kinematics solver.
- youtu.be/ixfTr19ikbg

Arduino-CLI

- Direct Contributor to the new Arduino CLI
- github.com/vinay-lanka/arduino-cli

Skills

Technical Skills

Embedded Systems, Robotics (ROS)
Arduino, AVR, ARM, Raspberry Pi (SBCs)
Full-Stack Web Developer / App Developer
Computer Vision and TF-Lite
Programming Languages (C, C++, Java, Go, Python)

Management Skills

Design (Figma), Publicity and Marketing, QA

Organisations

IEEE VIT Vellore Student Chapter

Board Member – Technical Lead

Becoming-I-Foundation

NGO

Achievements

Cofounder of ReTag – A funded start-up in retail security under the Technology Business Incubator, VIT
Winner and finalist in numerous hackathons
Invited to take a session on Robotics in Orange school – Arani
Speaker in the Node.IO workshop in the college's technical fest – GraVITas
Helped organise IEEE Techloop Hack and other events held by IEEE VIT student chapter

Interests

Football – Represented my school at district level. Keen follower of professional football.
Avid Gamer – Played Call of Duty, FIFA and Counter Strike on a professional level.
Amateur Guitarist – Likes to play random songs as a hobby
Video Editing – Edited the school's annual farewell video.
Design – Minimalist Design Sense and helped IEEE with design work