

Vinay Lanka

R&D Engineer – Robotics and IoT
THIS IS! DMG GmbH

vinaylanka111@gmail.com ✉

9502817733 ☎

github.com/vinay-lanka 🐙

linkedin.com/in/vinaylanka in

Electronics and Communication Engineering undergraduate from VIT, Vellore

Robotics Software Engineer with competencies in Embedded Systems, IoT and Web Development.

Certified Robotics Software Engineer by Udacity.

Experience

R&D Robotics and IoT Engineer – This IS DMG GmbH

July 2021 – Present

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.

2017–2021 – CGPA – 8.83

Personal Projects

Robot Web Suite

- Implementation of an industry ready robot controller that controls the any robot remotely through a web interface. Uses MoveIt, roslibjs and ROS control.

- <https://www.youtube.com/watch?v=37U62tWk-zE>

Autonomous Mobile Robot (YouTube Series)

- A fully autonomous robot designed from scratch and documented as a YouTube video series

- [youtube.com/playlist?list=PLglm6kGwO6a7AVhKQzmrjcVVicOnvtdyT](https://www.youtube.com/playlist?list=PLglm6kGwO6a7AVhKQzmrjcVVicOnvtdyT)

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=BghCrTwk0t0&t=21s](https://www.youtube.com/watch?v=BghCrTwk0t0&t=21s)

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

Pitch Shift algorithm using Phase Vocoder and Wavelet Transform algorithms

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

Arduino-CLI

- Merged feature contributions and bug fixes

- github.com/vinay-lanka/arduino-cli

Skills

Technical Skills

Robotics (ROS), Embedded Systems,

Computer Vision

Arduino, AVR, ARM, Raspberry Pi (SBCs)

NodeJS, Docker, Kubernetes

Programming Languages (C, C++, Java, Go, Python)

Design – Figma, Adobe Photoshop, Adobe XD

Management Skills

Publicity and Marketing, QA

Organisations

IEEE VIT Vellore Student Chapter

Board Member – Technical Lead

August 2019 – September 2020

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

Blogs and Tutorials

Medium - @vinaylanka

- Exploring Embedded - A Primer

- Control any Robotic Arm with ROS

- Making a hyper-engineered water alarm solution

YouTube – Vinay Lanka

- Autonomous Rover from scratch (ROS)

- Robot Web Suite