Vinay Lanka

Technical Lead – IEEE VIT Student Chapter
Co-Founder - ReTag

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A third year Electronics and Communications Engineering undergraduate student at VIT, Vellore. Open Source Contributor and a Developer with an interest in Electronics, IoT and Robotics. Seeking work experience to help me grow my real-world experience in the technology industry

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 - 8.53

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

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

Sorted - 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

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.
- github.com/vinay-lanka/xyrobotwebsite

Skills

Technical Skills
Electronics, Arduino, Raspberry Pi, Embedded Systems, Robotics (ROS), Internet of Things
Full-Stack Web Developer / App Developer
Computer Vision (OpenCV)
Programming Languages(C,C++,Go,Python)

Management Skills
QA, Publicity and Marketing, Design

Organisations

IEEE VIT Vellore Student Chapter
Board Member – Technical Lead

Becoming I Foundation
NGO

Achievements

CoFounder of ReTag - A funded startup 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 in 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 help IEEE with design work