






Utkarsh Verma

Student
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About me

My fascination with technology has propelled me onto various projects spanning hardware and software developments. I came up with a variety of systems of everyday utility, gathering a diverse skillset to help me approach problems from a unique viewpoint. I am at my best when I get my hands dirty building something. I look forward to new challenges and devising innovative solutions.

Skills

Electronics

PCB Design, Arduino, IoT, Prototyping

Linux

Software Development, Continuous Integration

Programming

Go, Java, BASH, Python, C, NodeJS

Web Development

HTML, CSS, JS, Hugo, SCSS

Writing

Markdown, LaTeX

Interests

Embedded Systems
Internet of Things
Static Websites
Software Development
Linux
Robotics

Education

2019 - Present **B.Tech in Electronics and Communications Engineering**
Indian Institute of Information Technology, Design and Manufacturing,
Kancheepuram
- CGPA - 9.13

Work Experience

Dec 2020 - **Junior Embedded Systems Engineer** Dextroware Devices
Mar 2021 Worked on a hands-free input device. Designed the schematics for the prototype and did the R&D for the next stage of the work.

Jan 2020 - **Team Leader** TARC
Mar 2020 Co-founded and led a team of 6 undergraduates as the electronics lead. Designed two non-humanoid robots with the team which scored 98/100 points in stage 1 of the national level in ABU Robocon.

Nov 2017 - **Student** Google Code-in
Jan 2018 Got introduced to the concept of FOSS and contributed to various open-source projects under OpenWISP. Became familiar with software development. Finished in the Top 10 participants under OpenWISP.

Accomplishments

Jan 2020 **Micromouse Competition** IIT Madras
Finished as a finalist in Micromouse competition in Shaastra 2020, conducted by IIT Madras.

Jan 2018 **Featured articles** Instructables.com
Articles on PCB making and prototyping tools featured on the website.

Jan 2017 **Sponsorship** DFRobot
Received sponsorship for my articles and personal projects.

Projects

Mar 2021 **8-bit Computer**
Arduino, Prototyping
Ben Eater's simple as possible (SAP) 8-bit computer.

Dec 2020 **Darmiyaan**
HTML, SCSS, JS, Hugo, Continuous Integration, NodeJS
A static website for the Darmiyaan podcast. It's highly performant and prioritizes accessibility and SEO.






May 2020 **BitBanged**
HTML, SCSS, JS, Hugo, Continuous Integration, NodeJS, Markdown, LaTeX
A static blog fully optimized for performance and search engines. Also employs its own dedicated commenting system using *Staticman*.

Apr 2020 **qGmail**
Go, Software Development, Continuous Integration
A command-line tool, written in Go, for fetching data from Gmail servers using Gmail API.

Mar 2018 **Line Follower Robot**
PCB Design, C
A robot built up from scratch which has PIC16F84A as the brain, coded in Basic C.

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Feb 2018 **Losant Temp Sensor App**

IoT, JS

An app for Mongoose OS which periodically sends ESP32's temperature readings to Losant's servers for plotting a graph.

Dec 2017 **ESPer**

PCB Design, IoT, Prototyping

An easy-to-make, mini-sized, DIY development board for ESP32 SoC. It is an open source project available on [GitHub](#).

Aug 2017 **BluFi**

PCB Design, Prototyping

A DIY bluetooth audio adapter for making wired headsets or speakers wireless. It also provides a wireless microphone.

Jul 2017 **Convertendo**

Prototyping

A mini audio adapter which makes any wired earphone compatible with your devices.

Mar 2021 **dwmblocks**

C, Software Development, BASH

A lightweight, modular and suckless status bar for *dwm* written in C.

Mar 2021 **hugo-mod-svg-icon-system**

HTML, Hugo

Hugo module for implementing a hassle-free SVG icon system in Hugo.

Dec 2019 **Yaru Dark Theme for Firefox**

CSS

A dark theme to port Ubuntu's Yaru Dark theme to Firefox which is written in CSS.

Feb 2019 **Ecosia Darker**

CSS

A dark theme for [Ecosia](#), the green search engine. It is an open source project written in CSS. Check it out on [GitHub](#).

Apr 2018 **Hugo Dream Plus**

HTML, CSS, JS, Hugo, Continuous Integration

An open source theme for [Hugo](#), the static website generator. It is written in HTML, CSS and using Go templates.