Utkarsh Verma

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utkarshvermai
UtkarshVerma

Enthusiastic about electronics and programming. Problem solver by nature and a fast learner. Believer of FOSS and maintainer of several such projects on GitHub. Writes articles on electronics and programming from time to time.

Skills

- Electronic circuit building
- PCB Design
- Arduino and Microcontrollers
- Internet of Things
- Proficiency in Java, C, Bash and Python
- Beginner in QML
- Web development
- Continuous integration
- HTML and CSS proficiency
- Documentation
- Markdown and LaTeX proficiency
- Linux
- CLI software development in Linux

Education

2019 - Current

Bachelor of Technology: Electronics and Communication Engineering

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram - Chennai, Tamil Nadu

- **CGPA - 9.13**

2017 - 2019

Indian School Certificate Exam

Bishop Johnson School and College - Allahabad, Uttar Pradesh

- Subjects - English, Physics, Chemistry, Maths, Computer Application
- Graduated with **88% marks**
- Graduated in Top 3% of class
- Vice President of Science Club

2015 - 2017

Indian Certificate of Secondary Education Exam

Bishop Johnson School and College - Allahabad, Uttar Pradesh

- Subjects - English, Hindi, History/Civics, Science, Maths and Computer Applications
- Graduated with **88.8% marks**

Accomplishments

2020 Finalist in IIT Madras' Tech Fest's Micromouse Event

2018 Finished in Top 10 in Google Code-in 2017

2017 Sponsored by DFRobot for electronic projects

Featured articles on Instructables

Software

- EagleCAD
- Proteus
- Adobe Illustrator
- Adobe Acrobat
- vim
- Hugo Static Generator
- git
- Jupyter Notebook

Languages

- Hindi (native)
- English

Hobbies

- Fiddling around in Linux
- Writing
- Playing Table-Tennis
- Watching anime

Projects

Feb, 2018

Hugo Dream Plus Theme

"hugo-dream-plus" is an open-source website theme I developed for the static website generator called Hugo. I'm currently planning to make it purely static and dependency-free (no Semantic UI etc.)

Mar, 2018

Line Follower Robot

I built a Line Follower Robot from scratch using PIC16F84A microprocessor. I also wrote the code for it in Basic C using Proteus. This was my first robot and is based on Vahid Yousefi's Line Follower.

Dec, 2017

ESPer: A DIY ESP32 Development Board

I designed the layout and schematic for ESPer using EagleCAD. It's layout files and other relevant things rest safely on it GitHub repository.

Feb, 2018

Losant Temp Sensor App

"losant-temp-sensor" is an open-source application for Mongoose OS which I wrote in mJS, a port of JavaScript for Mongoose OS. This app fetches the temperature sensor readings of ESP32 and pushes them upstream to Losant's servers using MQTT.
This app got included in Mongoose OS's official app list.

Feb, 2019

GMail Unread Mail Count Fetcher

This is a BASH script that I wrote for displaying the number of unread emails I have. (I use this in my i3wm Linux setup).
The script securely employs data transaction using OAuth2.

Dec, 2019

Yaru Dark Theme for Firefox

"yaru-dark-theme" is an open-source dark theme which brings the Yaru Dark theme from Ubuntu to Firefox. It is written in CSS.

Feb, 2019

Dark Theme for Ecosia, the green search engine

"ecosia-darker" is an open-source dark theme for Ecosia search engine. It is written in CSS and is soon going to be officially ported into the search engine!

Aug, 2017

BluFi: A DIY Bluetooth Audio Adapter

BluFi is a device which converts any wired speaker, earphones to wireless bluetooth ones. It employs the XS3868 module for achieving its goal.
My Instructable on this project got featured.

Jul, 2017

Convertendo: A minimal audio adapter

Convertendo solves the incompatibility of TRRS earphones or headphones, the ones with a microphone.
My Instructable on this project also got featured.