

Utkarsh Verma

 Allahabad, Uttar Pradesh, 211002

 utkarsh@bitbanged.com

 <https://utkarshverma.github.io>

 <https://github.com/UtkarshVerma>

 <https://www.linkedin.com/in/utkarshvermai>

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

- **Electronics:**
PCB Design, Arduino, IoT, Prototyping
- **Linux:**
Software Development, Continuous Integration
- **Programming:**
Go, Java, BASH, Python, C, NodeJS
- **Web Development:**
HTML, Hugo, CSS, JS, SCSS
- **Writing:**
Markdown, LaTeX

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**

2020

2018

2017



Accomplishments

- Finalist in IIT Madras' Tech Fest's Micromouse Event
- Finished in Top 10 in Google Code-in 2017
- Sponsored by DFRobot for electronic projects
- Articles featured on Instructables



Software

- **Autodesk:**
EagleCAD, Fusion 360, Sketchbook Pro, AutoCAD
- Proteus
- Adobe Illustrator
- Git Version Control



Languages

- Hindi (native)
- English



Hobbies

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



Projects

Jun, 2020

- **My Portfolio**
<https://utkarshverma.github.io>
A one-page static website built using Hugo. It uses the advanced stack of Foundation framework for high performance and responsive design. It also has a self-hosted server on Heroku for handling the contact form.

May, 2020

- **BitBanged**
<https://bitbanged.com>
A static blog, fully optimized for performance and for search engines. Also employs its own dedicated commenting system using Staticman.

Apr, 2020

● **qGmail**

<https://github.com/UtkarshVerma/qgmail>

A command-line tool, written in Go, for fetching data from Gmail servers using Gmail API.

Feb, 2018

● **Hugo Dream Plus Theme**

<https://github.com/UtkarshVerma/hugo-dream-plus>

An open-source website theme I developed for the static website generator called Hugo.

Mar, 2018

● **Line Follower Robot**

<https://github.com/UtkarshVerma/LineFollower>

My first robotics project that I built from scratch using the PIC16F84A microprocessor. I also wrote the code for it in Basic C using Proteus.

Dec, 2017

● **ESPer: A DIY ESP32 Development Board**

<https://www.instructables.com/id/DIY-ESP32-Development-Board-ESPer>

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

Feb, 2018

● **Losant Temp Sensor App**

<https://github.com/mongoose-os-apps/losant-temp-sensor>

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.

Feb, 2019

● **GMail Unread Mail Count Fetcher**

<https://www.instructables.com/id/Universal-Mini-OMTP-CTIA-Adapter-Convertendo>

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**

<https://github.com/UtkarshVerma/yaru-dark-theme>

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

Feb, 2019

● **Dark Theme for Ecosia, the green search engine**

<https://github.com/UtkarshVerma/ecosia-darker>

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

Aug, 2017

● **BluFi: A DIY Bluetooth Audio Adapter**

<https://www.instructables.com/id/BluFi-Portable-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.

Jul, 2017

● **Convertendo: A minimal audio adapter**

<https://www.instructables.com/id/Universal-Mini-OMTP-CTIA-Adapter-Convertendo>

Convertendo solves the incompatibility of TRRS earphones or headphones, the ones with a microphone.