Fenil Chandarana

Maker at heart,
empowering others to create

3+ years of maker-ecosystem exp.

Fab Academy graduate

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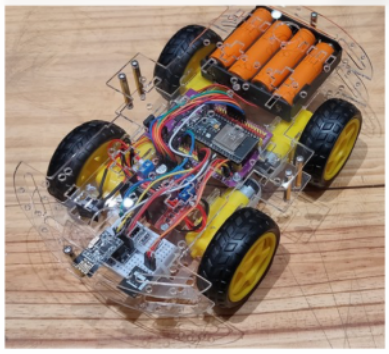

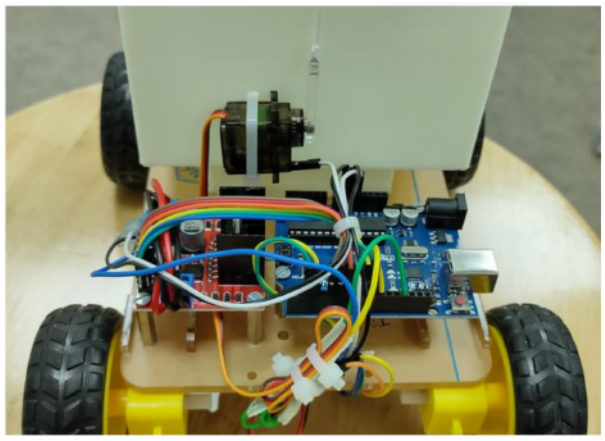

About the project: This clock is the fusion of electronics and mechanics. It is made of multiple stepper motors, motor drivers, microontroller etc. From brinstorming till the completion of the project, I invested two and a half years. For more details visit the webpage

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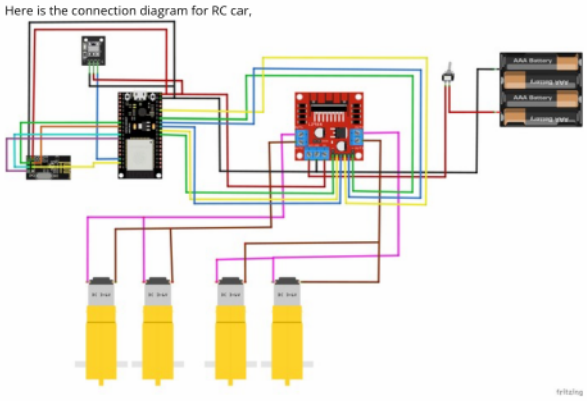
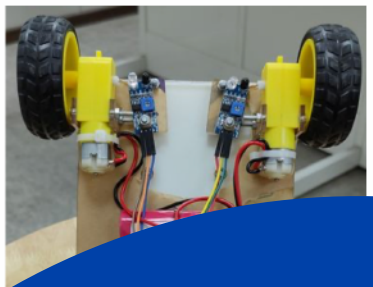
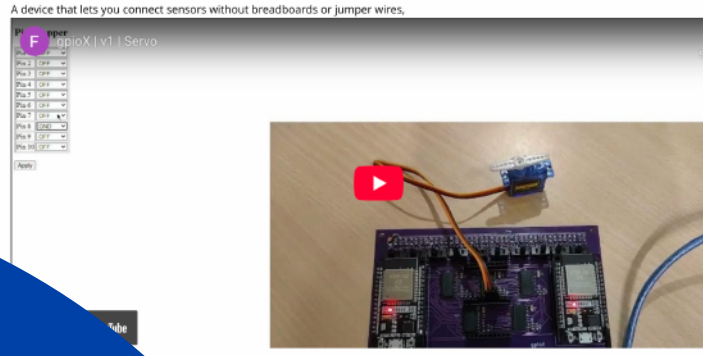
Here is the connection diagram for RC car,





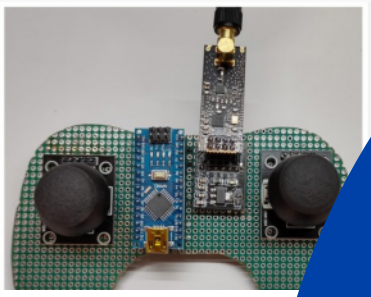
gpioX

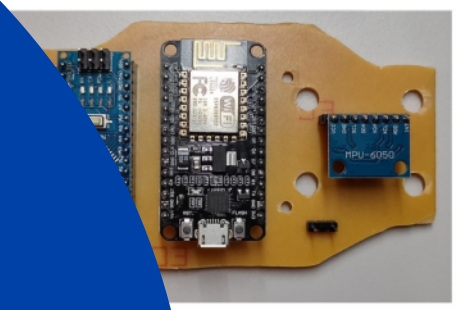
A device that lets you connect sensors without breadboards or jumper wires,

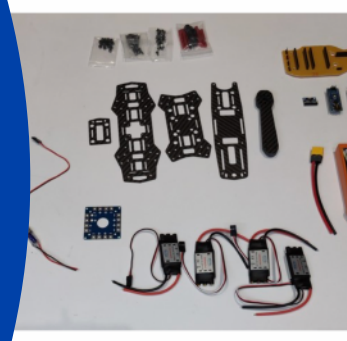


You can download the code used for RC car(receiver) from here

Now for the remote, I used joystick module, arduino nano and nrf Transceiver,

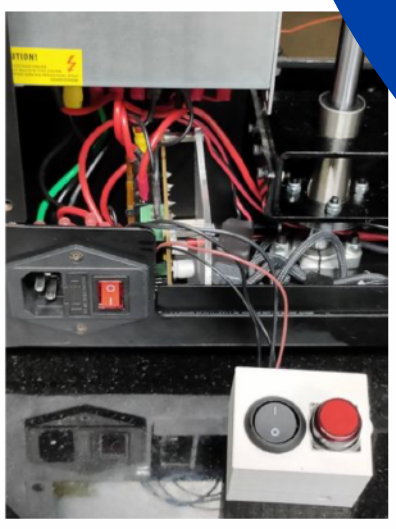






Built 20+ personal hardware projects

Mentored 20+ students projects (from idea to prototype)



About the project: This project was developed during my time at FLAME University and serves solely as a demonstration of my work. All rights to the project are owned by the university.

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Speech to Image print

A device prints an image based on the speech prompt you give,

About the project: This project was developed during my time at FLAME University and serves solely as a demonstration of my

Hands-on makerspace lead and single point of contact for day-to-day lab operations focused on mentoring students, enabling hands-on learning, and running day-to-day makerspace programs.

Designs and delivers curriculum, leads workshops and immersions, and supports teams as they move from ideas to workable prototypes through learning by making.

masters' union

Gurgaon

Nov25 Onwards

Maker Educator Makerspace Lead

MAKER'S™ ASYLUM

Goa

May25 - Oct25

Makerspace Manager

FLAME UNIVERSITY

Pune

A Makerspace Company

Dec23 – Mar 25

Project Manager

IIT Bombay

A Makerspace Company

Nov22 – Nov23

Lab Engineer

Trained students on 3D printers, laser cutters, lathe, drill, dremel;

Assisted faculty in planning and validating student projects;

Supported students during project execution;

Maintained and performed preventive maintenance on machines;

Guided students during lab sessions and project builds;

Worked closely with faculty to support course execution and lab programs;

Executed multiple lab projects, including AI enabled speech-to-image print;

Owned end-to-end lab operations including procurement, inventory management, maintenance, and introducing lab policies as the sole lab representative;

FLAME UNIVERSITY

Mentored student projects from idea discussion to working prototypes;

Trained students in 3D printing, soldering, and electronics during immersions;

Streamlined inventory and kitting through barcode-based tracking and Apps Script;

Researched, tested, and refined electronics kits before rollout;

MAKER'S™ ASYLUM

Designed and delivered makerspace curriculum from scratch;

Planned and ran other makerspace programs including workshops and immersions;

Guided student project builds and technical decision-making;

Coordinated interns and assistants to keep lab work running smoothly;

Single point of contact for everything related to the makerspace;

masters' union

Resume.ino

```
40 AI_Exploration
41   AI-assisted coding for 7+ fully functional projects;
42   Developed a speech-to-image print workflow using AI-
43    based image generation;
44   Used AI tools to refine and develop curriculum content;
45 Tools_Skills
46   3D Printing; Laser cutting;
47   CNC Milling; Soldering;
48   CAD 2D/3D/PCB; Fusion360;
49   Inkscape; KiCad;
50   Bambu Studio; LightBurn;
51   and more;
52
53
```

COM5

Send

Notable projects:

- Rangoli Making Machine
- DigiAnalog Clock
- gpioX
- Chowkidaar (Machine access control and usage tracking)
- RC (Car, Drone, Boat)

Autoscroll Show timestamp Newline 9600 baud Clear output