portfolio

where you meet real

about
me !

My work blends creativity and engineering, from IoT-based home automation to fire safety systems for electric vehicles. I enjoy designing solutions that are not only functional but impactful and relevant to real-world challenges.
This portfolio showcases some of my key projects, hands-on work, and the journey I'm taking to become a future-ready engineer.
Feel free to explore my projects, learn more about my interests, and connect with me.

education

pre degree

st.xavier's higher secondary school ,chemmannar

degree

viswajyothy college of engineering and technology vazhakulam

HOBBIES

photography

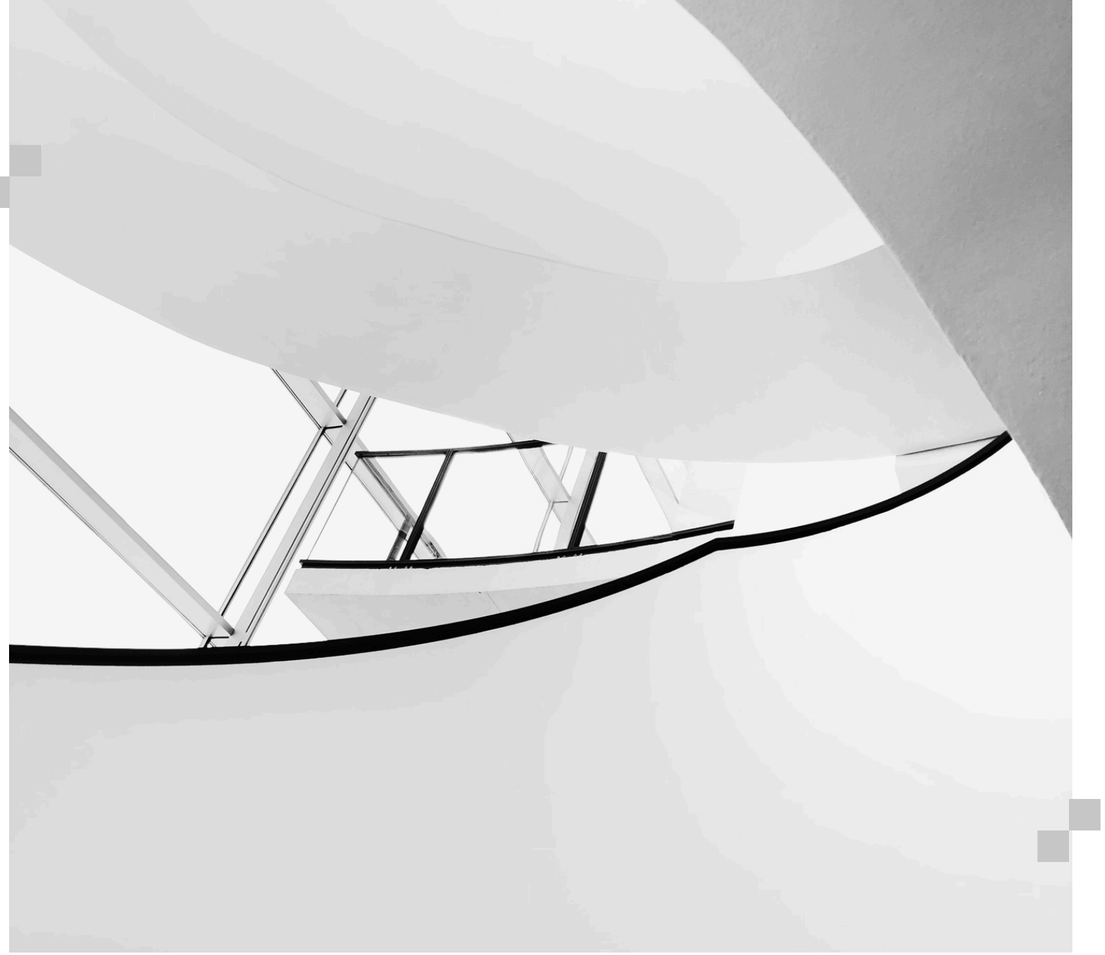
Photography allows me to capture the world from unique perspectives and tell stories without words. What began as a creative interest has grown into a meaningful way for me to explore light, composition, and detail — skills that also sharpen my observation and design sense as an engineer.

Editing

Photo editing allows me to enhance visuals, adjust mood and tone, and bring creative ideas to life through digital tools. I enjoy working with color correction, retouching, and visual composition to make images more impactful and expressive.
It has helped me develop an eye for detail, a sense of balance, and a better understanding of visual communication. Whether for personal projects, photography, or design, photo editing is a skill I continue to explore and refine.

story writing

Story writing is a way for me to explore imagination, emotion, and the power of language. Through short stories and narrative experiments, I enjoy creating characters, building fictional worlds, and capturing human experiences in words.
It helps me think deeply, communicate more clearly, and approach problems with empathy and creativity. Whether it's fiction, reflective writing, or idea sketches, storytelling remains a personal space for expression and discovery.



Elements of me

curiosity

The root of every question I ask and every problem I solve.

creativity

The drive to see patterns, build ideas, and shape solutions differently

precision

The detail behind every connection, line of code, or calculation

balance

TheThe harmony between function and form — logic and intuition. visual appeal.

projects

The Function Generator is an electronic device designed to produce different types of periodic waveforms over a wide range of frequencies. It is commonly used in testing, troubleshooting, and development of electronic circuits.

In this project, I built a basic function generator capable of outputting signals such as sine, square, and triangular waves. The signal parameters like frequency and amplitude can be adjusted using controls.

skills

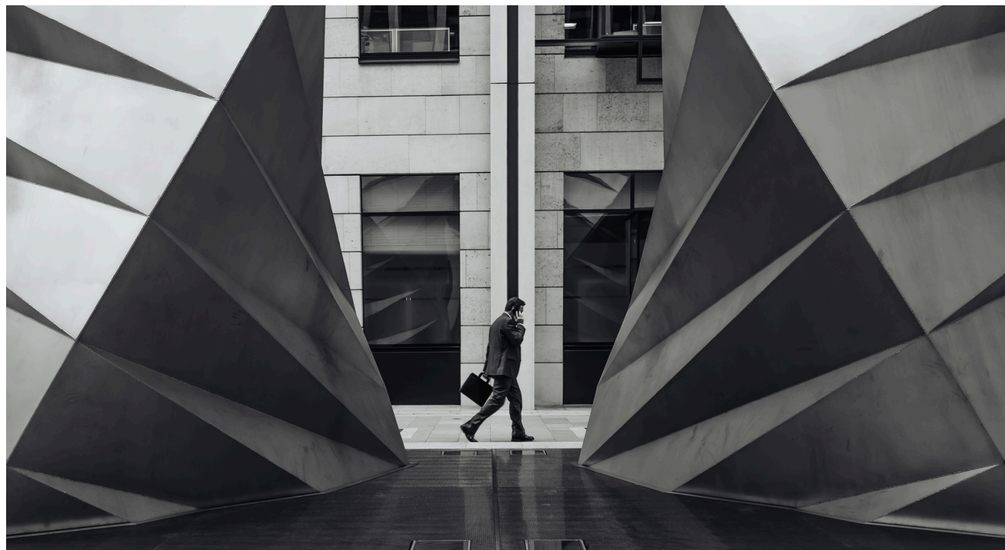
1. Circuit Design
Understanding and creating electronic circuits using both analog and digital components. Involves schematics, simulation, and real-world testing.
2. Arduino Programming
Using Arduino boards and IDE to build microcontroller-based systems. Skills include C/C++ coding, sensor interfacing, and project debugging.
3. Soldering & Prototyping
Hands-on skill of assembling circuits on breadboards or PCBs using soldering tools, ensuring strong and reliable connections.
4. Embedded Systems
Working with microcontrollers and low-level hardware control — blending software logic with real-world device control.
5. IoT (Internet of Things)
Connecting physical devices to the internet for automation and monitoring. Involves sensors, modules (like GSM, Wi-Fi), and cloud interfacing.
6. PCB Design
Designing printed circuit boards using tools like KiCad, Proteus, or Eagle. Converts circuit ideas into manufacturable boards.
7. Programming
Basic programming in C/C++, with understanding of logic structures, functions, and hardware-level code execution.
8. Testing & Debugging
Analyzing circuit behavior using tools like multimeters, oscilloscopes, and logic analyzers to find and fix issues.

soft skills

Photography
Capturing visuals with attention to lighting, framing, and storytelling. Enhances creativity and observation.
2. Photo Editing
Using tools like Photoshop or Lightroom to enhance images — applying color correction, retouching, and visual effects.
3. Story Writing
Creative storytelling through words — helps with communication, clarity of thought, and emotional intelligence.
4. Communication
Explaining ideas clearly to peers, teachers, or clients — both in writing and speech.
5. Team Collaboration
Working with others on group projects, sharing responsibilities, and building together effectively.

Conclusion

I am a learner, a builder, and a creator — driven by curiosity, shaped by discipline, and guided by a passion for purposeful design. Through electronics, programming, writing, and visual creativity, I aim to solve real problems and grow with every project I undertake.
This portfolio reflects not only what I've done, but who I am becoming.
Thank you for taking the time to explore my work.



Thank You.