



## Basavesh K

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## EDUCATION

### Bachelor of Engineering in Electronics and Communication Engineering (ECE)

Global Academy of Technology, Bangalore, Karnataka

Nov 2022 – May 2026

### Pre-University Course (PUC)

Jain College, VV Puram

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## SKILLS SUMMARY

- **Programming Languages:** Python, C, C++
  - **Tools / Software:** Excel, MATLAB, Xilinx
  - **Technologies / Platforms:** Red Hat, Linux, Arduino, GitHub
  - **Soft Skills:** Teamwork, Leadership, Communication
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## PROJECTS

### 1. DreamDraw – AI Sketch to Art Generator *(Apr 2025 – Ongoing)*

- Developed a Python-based tool that transforms rough sketches into detailed digital artwork using deep learning.
- Integrated OpenCV for sketch detection and applied style-transfer models for artistic rendering.
- Designed for open-source release with real-time canvas input and preview UI.

### 2. Smart Traffic Light System using Arduino *(Oct 2023 – Dec 2023)*

- Built an intelligent traffic management system using Arduino and IR sensors.
- Adjusted signal timing based on vehicle detection and density.
- Simulated using Proteus and validated logic in Xilinx.

### 3. Radar System using Ultrasonic Sensor and Arduino *(Sep 2023 – Oct 2023)*

- Created a basic radar to detect obstacles using an ultrasonic sensor and servo motor.
  - Visualized object distance and angle in real time using Processing IDE.
  - Helpful in short-range object detection applications like robotics and parking systems.
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## INDUSTRIAL VISIT

### **Radio Astronomy Centre (RAC), Ooty** *(Feb 2024)*

- Visited TIFR's premier facility for radio astronomical research.
  - Observed the Ooty Radio Telescope (ORT) and learned about pulsars, neutron stars, and extragalactic phenomena.
  - Gained insight into space weather monitoring and low-interference radio signal collection.
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## CERTIFICATES

- **Front-End Web Development** – TechConnect 3.1 (Nov 27–30, 2023)
- **Basics of Python** – Wingspan (Jan 6, 2024)
- **Internet of Things (IoT) Foundation** – Wingspan (Jan 9, 2024)