# Shibi Chakravarthi A U

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## CAREER OBJECTIVE

Electronics and Communication Engineering undergraduate with a solid foundation in electronic circuits and communication systems. Experienced in teamwork and leadership through co-curricular activities. Eager to contribute my skills to drive organizational success while fostering personal and professional growth.

## EDUCATION

**Bachelor of Engineering** Jun 2025
**P.E.S College of Engineering, Mandya.**
- ✓ Electronics and Communication Engineering.
- ✓ CGPA: 6.49

**Pre-University Education** Apr 2021
**Sri Sathya Sai Loka Seva PU College, Alike**
- ✓ PCMB
- ✓ Percentage : 92%

**10th Grade** Mar 2019
**Sri Sathya Sai Loka Seva Vidhyakendra, Alike**
- ✓ Percentage : 90.6%

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## TECHNICAL SKILLS

**Programming Web**
- **Languages:** C, Python (Libraries: OpenCV, NumPy, Pandas)
- **Web Technologies:** HTML, CSS

**Embedded Systems**
- **Microcontrollers:** Arduino (Uno, Nano), ESP32, ESP8266
- **Hardware Design Test:**
  - Circuit Design: MultiSim , DipTrace
  - Testing Tools: Oscilloscopes, Logic Analyzers, Signal Generators
- **Communication Protocols:** I2C, UART, SPI

**Development Productivity Tools**
- **IDEs:** Arduino IDE, Python IDLE, Visual Studio Code
- **Software:** Microsoft Office Suite (Word, Excel, PowerPoint), Google Workspace (Drive)

## PROJECTS

**CAN-based Vehicle Diagnostics Tool**

- ✓ Interfaced a CAN bus transceiver with the STM32F334R8T6 microcontroller to communicate with the on-board diagnostics (OBD) system of a vehicle.
- ✓ Implemented a CAN communication stack to send and receive diagnostic messages (e.g., engine RPM, vehicle speed, error codes) over the CAN bus.
- ✓ Developed a vehicle diagnostics tool to read and interpret diagnostic data, display it on an LCD screen, and provide real-time monitoring of vehicle parameters.

**AUTOMATIC CAR WIPER USING IoT**

- ✓ Developed a rain-sensing system to automatically adjust wiper speed based on precipitation intensity, reducing the need for manual adjustments.
- ✓ Implemented a dust sensor that activates a water spray and wiper action when dust accumulates on the windshield, ensuring clear visibility.

**VEHICLE PARKING MANAGEMENT SYSTEM**

- ✓ Designed a C code-based management system to optimize vehicle parking efficiency and reduce the time taken to find parking spots.
- ✓ Developed a solution to minimize congestion in parking areas through a system integrated with web applications.
- ✓ Enhanced parking management with real-time monitoring and efficient space utilization.

## ACTIVITIES AND INTERESTS

- ✓ Cooking.
- ✓ Gardening and nurturing plants.
- ✓ Motorcycling and exploring new destinations.