Sharanabasappa P Cheeli

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PROFESSIONAL SUMMARY

Embedded Engineer with 2.8 years of experience in firmware development, embedded systems design, and hardware-software integration. Proficient in C/C++, sensor interfacing, PCB design using KiCad, and ensuring EMI/EMC compliance. Strong background in debugging, testing, and system validation.

SKILLS

- **Languages:** C, C++, Python
- **Microcontrollers:** ATmega, ESP32
- **Hardware/Design:** KiCad, BOM, Gerber, Power Electronics
- **Protocols:** SPI, I2C, UART, CAN
- **Tools:** Arduino, Visual Studio Code, Oscilloscope, Excel, MS Office
- **Testing/Debugging:** EMI/EMC, Sensor Integration, System Testing
- **Documentation:** FMEA, User Manuals, Technical Reports

PROFESSIONAL EXPERIENCE

Flywheels Embedded Research Pvt. Ltd.   *Jun 2024 – Present*
Embedded Engineer

- **Firmware Development:** Developed code for embedded products with automated testing solutions.
- **PCB Design:** Created BOMs and Gerber files; ensured EMI/EMC and performance compliance.
- **Key Projects: Hubble Space Project:** PCB design, firmware, and system testing.
  Radiocraft: System-level testing and validation.
  Medixa: Led embedded system stability and functional testing.

SIMS Healthcare Pvt. Ltd.   *Aug 2022 – May 2024*
Embedded Trainee Engineer

- **System Testing:** Performed hardware-software integration and testing.
- **Documentation:** Created manuals and validation reports for engineering teams.

EDUCATION

B.E. in Electrical and Electronics Engineering   *2018 – 2022*
Visvesvaraya Technological University (VTU), Belgaum

CERTIFICATIONS

- **Embedded and IoT Systems:** Master Certification Program

LANGUAGES

English, Kannada, Hindi, Telugu