

PRASANNA S

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SUMMARY

Final-year Biomedical Engineering student with a unique blend of healthcare technology expertise and full-stack development skills. Proven track-record in developing IoT-driven medical devices and autonomous systems. National level hackathon participant and NCC C-Certificate holder with a strong foundation in C++, Java, and Web Technologies.

EXPERIENCE

Biomedical Intern | KVs Biomedical, Chennai **April 2025 - May 2025**

- Gained hands-on experience in medical equipment maintenance and hospital-grade technology workflows.
- Assisted in troubleshooting and understanding the lifecycle of clinical diagnostic tools.

PROJECTS

Brain-Computer Interface (BCI) System **NOV 2025**

- Engineered a system for neural signal analysis to bridge human cognition with external hardware.

SIH 2025 - SmartShield (IoT Gas Detection System) **DEC 2-025**

- Designed a manhole gas neutralizing and alert system for worker safety.
- Achievement: Selected up to Round 2 of Smart India Hackathon 2025.

CONSCIENTIA 2025 ,IIST- Autonomous Robotics Maze Solver &Line Follower **SEPT 2025**

- Built an IR sensor-based robot. Won 1st Prize in Maze Solver.
- Line Follower: Developed an autonomous robot using microcontrollers for path-tracking.

Luminalens (Smartphone-Integrated Ophthalmoscope),SIC 26 **FEB2026**

- Developed a portable diagnostic solution to image the posterior segment of the eye using smartphone optics.

EDUCATION

B.E. in Biomedical Engineering **2023 – 2027**
Bannari Amman Institute of Technology

- CGPA: 7.56/10.0
- Focus: IoT Healthcare devices, Embedded Systems, Circuit Design.

Higher Secondary (Class XII) **2021-2023**
T.N.S.S Gandhi Vidhyalaya Matric Hr. Sec.School

- Score: 91% (Biology Excellence: 99/100)

ADDITIONAL INFORMATION

- **Technical Skills:** C, C++, Java, Python, HTML, CSS,Frontend Fundamentals,IoT.
- **Languages:** English, Tamil.
- **Certifications:** Biomedical Intern(KVs Blomedical),NCC 'B' &'C' certificates.
- **Activities:**Active memner in NCC,Volley Ball player & event Organizer.

DECLARATION

- I **Prasanna**, declare that all the details provided above are true to the best of my knowledge