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SKILLS

Technical Skills

Good Level
Embedded Systems
C , Embedded C, C++, OOPS
Arduino, Raspberry PI
Networking, MATLAB
Wireless Communication

Intermediate Level
Simulation Softwares (V-REP)
AR / VR, Blender, Unity

Basic Level
Computer Vision
Autodesk Fusion

Soft Skills

Analytical thinking
Team Management, Leadership

AWARDS RECEIVED

- Winner of National Level Robotics Competition E-YANTRA conducted by IIT Bombay and MHRD
- Winner of Hardware Producthon conducated by IIT Roorkee 2020
- Winner of Smart India Hackathon Hardware Edition 2019 conducted by MHRD India
- Winner of Smart India Hackathon Software Edition 2019 conducted by MHRD, India
- Certificate of Excellence in C++ and Data Structures by Coding Ninjas
- Scholars Award for Securing 1st position in CBSE board at school level

SURBHI KUMARI

ABOUT

I have a passion for learning new things and technology that interests me. I believe in open mindedness to achieve higher growth. I do not fear of not knowing things, rather it encourages me to interact and learn. I always use best of my ability in any work done by me. I enjoy analysing and solving problems and taking exciting challenges.

CAREER OBJECTIVE

I aim to work in the field of robotics mainly research and development in an organisation. Also I look forward to work with people who support my interests and ideas so that i can be creative and efficient in my own way.

EDUCATION

Bharati Vidyapeeth's College of Engineering

Aug 2017 - Present | B.Tech in Electronics and Communication | CGPA(8.99/10)

S. S. Mota Singh Model School

April 2016 - March 2017 | Non Medical (PCM) | Percentage - 95.4

EXPERIENCE

May 2020 - July 2020 | Research Intern | IIT Bombay | (e-Yantra)

- Worked on Test Driven Development for PIC applications.
- Included writing test scripts for PIC controller codes, random question generator and algorithms.

August 2019 - December 2019 | Embedded Systems & Networking Intern | Aerogram Pvt. Ltd. (IIT Delhi)

- Worked on integration of LoRa modules in the air pollution monitoring devices.
- Implemented star and mesh networks for the devices deployed in Campus.

July 2019 - July 2020 | Vice Chairperson | Robotics and Automation Society | IEEE Student Branch | BVCOE

- Responsible for leading the team and gear up robotics environment.
- Conducted technical workshops to teach students about various topics in the field of robotics and also learn from them.

July 2018 - July 2019 | Chapter Representative | Robotics and Automation Society | IEEE Student Branch | BVCOE

- Interacting with students and make them aware of robotics chapter.
- This position allowed me to interact with people and introduced me to the world of technology and great people.

September 2019 - July 2020 | e - YANTRA Project | Biped Patrol

- In a team of 4, we participated in this competition where we ended up making two wheeled robot balancing itself using LQR algorithm controlled using a remote.
- My role included the hardware implementation of the theme and writing C codes for reliable wireless communication using Zigbee technology and interfacing sensors, motors with the controller and understanding LQR algorithm.

Smart India Hackathon Project | Nurse Joy

- In a team of 6, we built a Smart ICU robot to assist nurses in their daily tasks like lifting the patients by mimicking the action of nurse wearing a jacket embedded with motion sensors.
- My role was to write an efficient code for robot to imitate the action performed by the nurse accurately. It included interfacing the sensor and applying filters and algorithm to detect accurate motion and send them wirelessly to the robot.