SHASHTESH KUMAR

Durgapur, West Bengal

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Education

Rajiv Gandhi Institute of Petroleum Technology, Jais (UP)	**CGPA : 6.89**
Bachelor of Technology in Electronics Engineering	*2022 - Present*
Narayana School, Andal (WB)	**85.4 %**
Central Board of Secondary Education (XII)	*2022*
S.K.S Public School, Raniganj (WB)	**87.5 %**
Central Board of Secondary Education (X)	*2020*

Electronics Skills

- Analog Electronics
- Digital Signal Processing
- Digital Electronics
- Communcation Systems
- Embedded System
- Network Analysis and Synthesis
- Microcontroller Programming

Training/Experience

Summer School on Semiconductor Technology and Microfabrication — **June 2024**
CeNSE, IISc Bengaluru — *Remote*

- Completed 70+ hours module in nanoelectronics, focusing on semiconductor microfabrication and MEMS techniques, enhancing analytical skills with SEM and AFM.
- Collaborated with peers and industry experts to develop networking skills and gain insights into future trends in semiconductor technology.
- Cultivated critical thinking and problem-solving skills by addressing real-world challenges in semiconductor manufacturing processes.

Projects

Wireless IR Robotic Soccer System | C, Microcontrollers, Arduino IDE — **July 2023**

- Integrated embedded systems with motor drivers and sensors to achieve precise control, navigation, enhancing competitive performance
- Built and tested prototype robotic players, iterating on designs based on performance data to enhance functionality.
- Participated in Technoxian WRC, securing 16th position in overall 80 robosoccer teams globally, powered by AICRA.

Technical Skills

Languages: Python, C/C++, Matlab, Verilog VHDL, Assembly
Developer Tools: Cadence Virtuoso, AutoCAD, Arduino IDE, Xilinx Vivado
Operating Systems: Linux, Windows, macOS

Leadership / Extracurricular

Science and Technical Council — **Fall 2022 - Present**
Event Coordinator — *RGIPT*

- Organized Urjotsav'23 and 5+ events for 500+ attendees, managed Robo-events with 12+ teams, and led 20+ members to improve public speaking, productivity, collaboration, and event execution.

IEEE SB — **Fall 2022 - Present**
Technical Executive — *RGIPT*

- Led a team of 35 to organize 10+ workshops and 9 conferences, driving a 270% increase in engagement, while securing 6 guest speakers and optimizing event coordination and team collaboration.