

Sudarshan SHARMA

PERSONAL DATA

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EDUCATION

JULY 2015 to Present Integrated Master of Technology at **IIT Kharagpur**, India
Major: Electronics and Electrical Communication Engineering
GPA: 8.78/10

JULY 2015 Senior Secondary at **Delhi Public School Bokaro**, India
Central Board of Secondary Education
AGGREGATE:95.60%

JULY 2013 High School at **Delhi Public School Bhagalpur**, India
Central Board of Secondary Education
CGPA: 10/10

RESEARCH EXPERIENCE

	Electronics and Embedded System Team Member at KHARAGPUR ROBOSOCER STUDENTS' GROUP IIT Kharagpur, India
FEB 2015 TO PRESENT	Developed a Graphical User Interface in C# to Plot The Data From Serial Port in Real Time. Working on Development of Low Cost BLDC Motor Driver. Implemented Closed Loop Control Feedback on BLDC Motor using the low Cost BLDC Motor Driver.
OCT 2016 TO PRESENT	Team Member at REHABILITATION ROBOTICS PROJECT, IIT Kharagpur,India Part of a group with an aim to develop an exoskeleton for the lower extremity of human body consisting of actuators and feedback sensors, in order to impart locomotive ability to the physically disabled people.Working on the Controls part

AWARDS AND ACHIEVEMENTS

JAN 2016 Best Fresher Warehouse Kshitij,IIT Kharagpur
Made a Gesture Controlled Differential Drive Robot using IMU Sensors and Microcontroller.Moreover interfaced RFID tags Detectors and implemented Forklift Mechanism to solve the Problem Statement.

MAR 2016 Hardware Modelling Gold, IIT Kharagpur
Smart Steer Wheelchair Attachment.Implemented Closed loop Control Feedback on the Position of Steer.Used MPU-6050 and HMC5883L to Calculate the Yaw angle.Interfaced the Bluetooth Module to Communicate with the Mobile App.Designed the main Circuit of the Attachment.

DEC 2016 Obstacle Avoiding Robot,
Mentored a Group of 43 students in an IEEE certified Workshop and Successfully accomplished the Problem Statement.

SKILLS

Robotics: RASPBERRY PI, AVR (ATMEGA AND ARDUINO), ARM CORTEX M4 (STM DISCOVERY), INTERNET OF THINGS,ROS,OpenCV,EAGLECAD,SOLIDWORKS

. Language: C, C++, Python,C,Matlab,Java,Git