Shreyas
Sanghvi

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Education

B.Tech Electronics and Communication NIIT University | Expt. 2020 | GPA:8.2/10

Class XII
Pace Jr College | 2016 | 80 %

Class X
Ryan International (ICSE) | 2014 | 89%

Skills

Languages: C, Java, Matlab, SQL, Neo4J, MongoDB, Basics of Python
Embedded : BeagleBone, PIC16F877A ,AT89S52, Qualcomm Dragonboard 401C, Arduino, Raspberry Pi
Design : Orcad, Verilog, VHDL

Extra-Curricular

Member Student Association Committee @ NIIT University

Co-Founder & Head @ Electronics and Robotics Club
- Organized talks & workshops that help students develop their technical skills
- Taught basics of MATLAB to students

Founding Member IEEE student body @ NIIT University
- Organizer of research Symposium
- Organized a peer to peer learning workshop based on Arduino and Beaglebone

Volunteer @ Community connect program by NIIT University
- taught rural school kids over the weekend

Work Experience and Internships

May-Aug'18 Research Intern — Center for Artificial Intelligence & Robotics, DRDO, Bengaluru
Documented my findings based on retrieval perception for SQL and NoSQL databases using MsSQL, Neo4J and MongoDB to suggest suitable database to the user based on the nature of query and data

May-July'17 Summer Intern — Jet Airways, Mumbai
Performed maintenance and overhaul of B737, B777, A330 and ATR72 batteries in addition to diagnosing problems related to the electrical system

May-Jun'16 Summer Intern and Asst. Mentor — Creative Technology Workshop, Mumbai
Taught Lego mindstorms based robotics to students aged eight to twelve during summer camp and co-mentored a World Robotics Olympiad Elementary team comprising students aged ten and eleven that secured the Fifth place at the world finals

Research and Projects

Jan'19 Development of a portable device for monitoring hydrogen sulfide, methane and ammonia — Duration: ongoing
Implementing a TGS2602 based low cost and portable device that can be used by sewage workers in India. The Project is aimed at reducing the no of deaths among sewage workers due to high exposure to H2S gas.

Oct'18 NO-Brainr - HackHarvard — Duration: 3 days
Implemented Snapdragon 410C based controller for home-automation that took commands from Muse headband in the form of eye blinks and jaw clenches. The device was aimed to aid and improve the lives of physically challenged people.

Aug'18 Design of Gas System — Duration: 1 months
Designed a PIC16F877A based gas monitoring system using MQ7 Gas sensor for EL202 - Microprocessor & Microcontroller course.

Aug'17 Design a Robotic Arm — Duration: 9 months
Implemented a custom stepper motor driver for the robotic arm and documented the whole development. The arm which will be used for course TA212 - Workshop practice to teach debugging techniques

Jan'17 Team RFactor - FRC6024 — Duration: 3 months
Inspired new team members to actively participate during the design and testing of the robots and helped in optimizing the implementation of different ideas

Achievements

Oct'18 Winner Best hardware hack using Qualcomm device — Hack Harvard,USA
Implemented a Muse headband and Qualcomm 410C board based home-automation system

Mar'18 Winner of Hackatronics — Apogee techfest, BITS Pilani
Won First position among thirty participants(which included final and pre-final year electronics student) for designing circuits for challenges that were provided on the spot.

Mar'17 Winner of Quality Award — FIRST Robotics Competition 2017
Received the Quality award by Motorolla Solutions Foundation for Robustness in design and fabrication for our robot

2014-2015 Olympiads(School Level)
Top 20 at the World Robotics Olympiad 2014, Second and sixth position at Indian Robotics Olympiad 2014 and 2015 respectively