

Samarth Jain

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Education

- **R V College of Engineering** Karnataka, India
B.E in Telecommunication Engineering; CGPA: 8.2 2014 – 2018
 - Key Courses: DSP System design, Antenna Design, HDL implementation on FPGA, Networking, Microprocessors And Microcontroller, Embedded Systems and Power Electronics integration, DSP Design

Experience

- **Hyperloop India** Jan. 2016 – 2017
 - Design and development of a scalable and feasible Hyperloop pod
 - Development of braking control system using MATLAB and Simulink
- **Miracle Electronics** Jan. 2016 – 2017
 - Manufacturing of Halbach motor which has more efficiency then conventional motors at present
 - Development of controller to operate halbach motor
- **Project Garuda** Jan. 2015 – 2016
 - Electrical Subsystem*
 - Designed and fabricated BLDC motor controller with a unique design
 - Troubleshoot and debug power circuit and networking issues in electric vehicle
 - Design and manufacturing of Carbon Fibre Car Shell

Skills

Languages: C/C++, VERILOG, HTML, JAVA, PHP

Manufacturing Skills: Multilayer PCB, Carbon Fibre Structures

Tools: NI Labview, Solid Works CAD Design and Simulation, Xilinx ISE, Proteus Simulation And Ares PCB Design, MatLab, Ansys HFSS(Maxwell equation Solver)

Academic Projects

- **3 Phase Motor Controller For Commercial Electric Vehicle** Jan. 2015 - Sep. 2016
Academic Project
 - Developed a Brushless DC Motor controller for electric vehicles
 - Implemented a novel design for above using Power MOSFET, logic gates and ATMEGA32 to increase efficiency
 - Achieved simpler, efficient and lower cost design of a 3 Phase Trapezoidal controller
 - Design verified by rigorously testing on an self designed vehicle

Achievements

- Initiated and designed **STAND ALONE SOLAR POWER PLANT** for Project Garuda
- Member of Project Garuda, the **only Indian team** to manufacture electric urban concept vehical motorcontroller and complete endurance at an international event, **SHELL ECO MARATHON** held at Singapore March 2017
- Secured 1st position in the state of Delhi and 27th Position nationally at the National Math Olympiad 2013

References

Prof. M N Dinesh
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Prof. T.P.Mithun
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