Samarth Jain

E-mail: samarth.garuda@gmail.com Cell: 9632211317

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 than conventional motors at present
- Development of controller to operate halbach motor

Project Garuda

Electrical Subsystem

Jan. 2015 - 2016

- 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

Academic Project

Jan. 2015 - Sep. 2016

- 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

R.V. College of Engineering

Bangalore,India

 \boxtimes dineshmn@rvce.edu.in

Prof. T.P.Mithun

R.V. College of Engineering

Bangalore,India

 \boxtimes mithuntp@rvce.edu.in