

Parth J Soni

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Education:

Graduation:

University : University of Texas at Arlington
Major : Mechanical Engineering
GPA : **3.667/4**

Under Graduation:

University : Gujarat Technological University
Major : B.E in Mechatronics (2013)
College : G H Patel college of Engineering and Technology (<http://www.gcet.ac.in/>)
C.G.P.A : 6.78 / 10

Projects & Experience:

3D-printer

- Actively participated in 3D printing project. Manufactured 3D printer parts
- Designed machining part and body of the 3D-printer using PRO-E software. And manufactured all necessary parts for the machine.
- **Responsibility:** To **design parts** and design **process path**.

Reluctance motor

- Worked on the project during the internship at the **Parag Engineering** (<http://www.paragengineering.com/>).
- Designed the rotor and stator of 12*8 reluctance motor using **PRO-E software**, and worked on the driver circuit.
- **Responsibility:** Design mechanical parts, process path.
- **Learned:** Use of electronics parts used in the driver circuit of the motor, programming on the Arduino UNO and arduino duemilanove boards.

Capture of compression shock wave using pure convection equation:

- Worked on **Matlab**

Current Project:

Cold Plate cooling

- Just joined the team of the cold plate cooling under the guidance of Dr. Dereje Agnofar.
 - **Responsibility:** Design modification and analyses of cold plate.
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Technical key skills:

- Basic knowledge of design software like **Cre-o, AutoCAD**
 - Worked on **Hydraulic and Pneumatic circuits** during under graduation
 - Studied and worked on **CNC programming**
 - Worked on basic machines such as **lathe, drilling and other industrial machinery** in field
 - **Studied about PLC Device** during under graduation
 - Basic knowledge of **C++, C, Visual basic**
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Achievements and extracurricular activities:

- Attended workshops on **PLC SCADA**, in which learned about basic programming language as well as some of the hardware of plc and understood the working method of such devices.
- Prepared line **follower as well as wall follower wire-less robot** with the help of experienced seiners and professor.
- **Attended expert lecture on Pressure vessel design**, learned about **basic parameters** related to this and some **methods of detecting defects and cracks** in it.

- Prepared **wireless as well as wired robotics** car at the first year of engineering, in which got knowledge of such robotic devices and also participated in competition of that robot after work shop.
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