

# Mayur Vashishth

Mobile : 9056303733

Email : vashishthmayur@gmail.com  
LinkedIn: linkedin.com/in/mayurvashishth

## EDUCATION

- **University Institute of Engineering and Technology, Panjab University** Chandigarh, India  
*Bachelor of Engineering in Mechanical Engineering* August 2015 – June 2019

## EXPERIENCE

- **Honeywell UOP** Gurgram, India  
*Mechanical Design Engineer 1* August 2019 - Present
  - **Reactor Design:** Working on FCC Reactor Design and Key Mechanical Equipment Design. Worked on multi-million dollar projects for some of the biggest firms in oil refining business.  
Skills Used: MicroStation, Mathcad, Structural Design, FEA
  - **CAD Automation:** Working on CAD Automation of various FCC reactor internals and other equipment used in FCC technology.  
Skills Used: VBA, MS Excel
  - **Vendor Document Review:** Responsible for reviewing manufacturer drawings for Radial Flow, FCC and Downflow technologies.
  - **Extra Responsibilities:** Member of UOP India Engineering Communications Team. Designed Calendar for UOP India Engineering group for year 2020.  
Skills Used: Adobe Illustrator
- **Honeywell UOP** Gurgram, India  
*Mechanical Design Engineer Intern* June 2018 - August 2018
  - **CAD Automation:** Worked on CAD Automation of FCC Reactor internal equipments which help reduce delivery time of projects by as much as 30  
Skills Used: MicroStation, VBA, MS Excel
  - **Vendor Document Review:** Reviewed manufacturer drawings for a UOP customer in China.
- **Panjab University** Chandigarh, India  
*Trainee* June 2017 - August 2017
  - **Iterative Methods:** Worked on understanding and developing multipoint iterative techniques for solving non linear equations. Also worked on generating Newton Fractals for various non linear equations.  
<https://github.com/mvashishth/Numerical-Methods>

## SKILLS

Python, MicroStation, VBA, Linux, MATLAB, Mathematica, Git, HTML, CSS, Node.js, React.js, Adobe Illustrator

## PROJECTS

- **Ornithopter:** Designed and fabricated an ornithopter. FDM 3D printed parts were used.  
Skills Used: MATLAB, SolidWorks, Theory of Machines, FDM 3D printing, Arduino programming
- **IoT based Condition Monitoring System:** Developed an IoT based condition monitoring system for induction motors. In this system an accelerometer sensor is mounted on an induction motor and its vibration data is monitored using web based client. [https://github.com/mvashishth/iot\\_cms](https://github.com/mvashishth/iot_cms)  
Skills Used: Python, HTML, CSS, Arduino Programming, Node.js

## EXTRA CURRICULAR

- **Mentor(Smart India Hackathon 2k19 Hardware Edition) (June 2019 - July 2019):** Mentored team The\_Turings for SIH 2k19 Hardware Edition. Was responsible for design and manufacturing of the product enclosure. The team was crowned winners for the problem statement "Tracking Board for Unsafe Acts" posed by Kokuyo Camlin.  
Skills Used: AutoCAD, FDM 3D Printing
- **Programming Club UIET (September 2017 - June 2019):** Helped to grow the club to 600+ members since it's inception. Aim of the club is to prepare students for professional world by holding workshops on Machine Learning, Robotics and other computer science related domains.
- **Software Freedom Day (May 2018 - September 2018):** Co-Chair for SFD'18 conference at Panjab University. The conference is aimed at guiding freshman students in the domain of Computer Science, Electronics and Information Technology. During my tenure the budget for the conference increased from INR 10,000 to INR 1,00,000.