Ninaad Bhan

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Education

- **Manipal University Jaipur** — Jaipur, India
  Bachelor of Technology in Mechatronics Engineering; GPA: 7.42 /10.0 — *July 2014 – June 2018*

Skills

- **Languages**: Python (scikit-learn, NumPy, SciPy, Pandas, OpenCV), C++, R
- **Softwares**: MATLAB & Simulink, LabVIEW, Creo, Keil
- **Developement Board**: Arduino, Rspberry Pi
- **Academic**: Pneumatic & Hydraulics, Fuzzy Logic, Artificial Neural Systems, Sensors, Robotics, Microelectromechanical Systems, Microcontrollers & microprocessors, Composite Materials, Control Systems

Projects

- **3D Printer**
  - **Designing and modelling** of square-shaped and cantilever structured 3D printer using **Creo.**
  - **Circuit designing** of sensors and actuators using microcontroller Arduino Mega and MKS gen controller
  - Coding and implemantation of **firmware** using parameters like vibration, temprature, etc.
- **LEGO LabVIEW Projects**
  - Optimized line follower with **single infrared sensor** using **PID Programming**.
  - Spying self-balancing robot using **gyroscope sensor** and **PID Programming** with **camera**.
- **Autonomous Robotic Arm**
  - Designed, hand crafted and programmed an autonomous robotic arm with **3 degrees of freedom with 5 finger clampers** using **servo motors** and **sensors** with **Arduino Environment**.
- **PLC Simulation**
  - Design and simulation of Hydro power plant using Seimens PLC.

Research Papers

- **Importance of Cantilever shaped Polar 3D**, *The International Conference of Start-Up Ventures: Technology Development and Future Strategies (SV-TDFS), 2018*
- **Importance of Cantilever shaped Polar 3D printers as new standard for desktop 3D printers**, *Submitted for publishing*

Experience

- **Magal Tech. Engg. Pvt. Ltd** — Chennai, India
  Intern — *June 2017 - July 2017*
  - Indepth study of the **Automated Thermostat Calibrating Machine** and presenting ideas for improvement.
- **VoidWorks(Purinto)** — College-Level Startup, Manipal University
  Co-Founder — *Feb. 2018 - Jun.2018*
  - 3D printing services for the university and the regional market.
  - Tackling common problems related to **filament re-utilization** and **3D object scanning**.