Tanuj Satti
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Professional Education

SGT University, Gurugram **2018 to 2022**
B.Tech. in Mechanical Engineering CGPA: 8.79
(Till 6th Semester)

Skills

Languages: Python, HTML, CSS
Tools & Technologies: MS Excel, Machine Learning, MIMICS, Solid works, Fusion 360, Spline
Core Skills: Effective communication, Team management, Logical reasoning, Delegation, Conflict resolution, Team Work, Empathy, Planning, Designing, UI & UX Selection.

Research and Patent

Patent:

- **Title**: A smart lap-post for air purification
  Patent no: 2021104404
- **Title**: A smart lap-post for air purification (Design)
  Patent no: 347383-001
- **Title**: Advanced ISF method by using Laser & Advance mechanism
  Patent no: 2021102997 A
- **Title**: In-bed exercising and monitoring device
  Patent no: 2021100325
- **Title**: Yoga bed for health tracking (Design)
  Patent no: 353934-001
- **Title**: Self sanitizing attendance recorder with thermal screening.
  Patent no: 2020104395
- **Title**: Bio-printing device and system for wound healing
  Patent no: 202111006553 A
- **Title:** Apparatus & Method for multi-material extrusion based 3d Printer
  Patent no: 202011054516
- **Title:** A system and process for recycling waste fabrics
  Patent no: 2021102761

Extracurricular

Hobbies:

- Singing
- 3D printing
- Designing
- Football
- Cooking

Certifications & Courses:

- "**AUTO CAD - 2018**"- Intern Shala
- "**Python Programming**"
- "**Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360**"- Autodesk- coursera.org/verify/XSRLLUAMVVHT
- "**Machine Learning pipelines with Azure ML Studio**"- Coursera Project network coursera.org/verify/VJGD66CVTG4Y
- "**The Raspberry Pi Platform and Python Programming for the Raspberry Pi**"- UCI coursera.org/verify/9ALTZ2UXPKQ8
- "**Strengthening Your Widening Network**" coursera.org/verify/XRJ2SRJKT6TV
- "**Introduction to Artificial Intelligence (AI)"**- IBM coursera.org/verify/CVXUPNMCG3WY
- "**The Raspberry Pi Platform and Python Programming for the Raspberry Pi**"- UCI coursera.org/verify/9ALTZ2UXPKQ8
- "**Programming for Everybody (Getting Started with Python)**"- University of Michigan- coursera.org/verify/HUWWJ95XMJRC
- "**Python Data Structures**"- University of Michigan- coursera.org/verify/TERF7CBZ5KVM
- "**Establishing a Professional 'Self' through Effective Intercultural Communication**"- National University of Singapore- coursera.org/verify/QEBHXCBXNKXU
- "**3D Printing Software**"- ILLINOIS- coursera.org/verify/X4FK94YMMY3L
- **"DDA691x: Product Design: The Delft Design Approach**"-DelftX- edX df96dd0d860d42f7b980bfa28a40bd71

Projects

Gestured Controlled Robot **2018**

- Built a robot capable of lifting object having twice its weight.
- Acceleration and Movement of End effector was controlled using human gesture using flex sensors.

Fabrication of 3D printer **2019**

- Built a three-dimensional printer capable of prototyping various materials and designs.
- It was majorly used for medical purpose for external prosthesis and pre-operative patient prototypes.

Mechanical ventilation device for human resuscitation **2020-2021**

- Fabricated a ventilator capable of providing airway for the covid patients using mechanical means.

Aerosol Containment device **2020**

- Built a device capable of entrapping all the aerosols transmitting from patient while operation.

A Self sanitizing, segregating and Sorting device for currency **2021**

- Build a device which is able to sanitize and detect any currency which goes in and segregates the currency according to their values.

Vento monitor **2021**

- An intelligent ventilator for recusation of patients at the affected area

Oxygen Concentrator **2021-2022**

- Fabricated an in-house Concentrator with a capacity of generating 30 l/min of oxygen that can be used to provide oxygen to patients

Leadership

AET **Role: President** **2019-2021**

- ➢ Made sure that proper functioning of Student executive committee
- ➢ More than 350 project were made under the Association of Engineers and technocrats

ICMAI **Role: Volunteer and Coordinator** **2020**

- ➢ Volunteered in managing all the research papers
- ➢ Proof reading and plagiarism checking

I hereby declare that all the above information is correct and accurate.

Name of Student: Tanuj Satti
Place: Gurugram
Date: 14.3.2022