Yash Soni

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EDUCATION

Amity University Dubai   **Jan 20 – Present**

- Bachelor of Technology (Mechanical Engineering)
- CGPA : 7.9

Jaishree Periwal International School   **Apr 17 – Jun 19**

- International Baccalaureate (IB Diploma Programme)
- Majors (HLs) : Math, Physics, Chemistry

SKILLS

- CAD – SOLIDWORKS, AutoCAD, FreeCAD
- Programming – C, C++, Arduino IDE, Scratch, Lego EV3

WORK EXPERIENCE

ExpertHub Robotics | Robotics Engineer   **Jul 22 – Sep 22**

- Tested and suggested new features for the company's robotic software, installed in multiple robots, and provided detailed test reports. Greatly contributed in the development of the company's robotic software.
- Carried out maintenance of faulty parts of humanoid robots at workshop, fixed multiple display screens, wheels, and other parts to get multiple robots working again.
- Developed and implemented SLAM Maps for various robots like Amy, Cruzr, and Sanbot Max for robotic exhibitions.

Unique World Robotics | Robotics Engineer   **May 21 – Sep 21**

- Held Robotics workshops and collaborations with multiple schools in Dubai catering towards Robotics and STEM Lab setups, brought in about 20-25 clients for Lab Setups.
- Conducted free demo sessions for several popular courses such as MIT App Development, BlockPy, Scratch, and others. Through demo sessions, I was able to convert seven students into committed learners who enrolled in the company's full-time robotic training program.
- Utilized LEGO Robotics and block programming to teach students the basic construction and programming of a basic Robot.

PROJECTS

Desktop CNC Drilling Machine   **Jan 23 – Present**

- Built with an intention to automate gold jewellery drilling, and eventually the end-to-end process of jewellery manufacturing. This would greatly reduce time taken for manufacturing, with better precision.
- Assembled and upgraded the spindle and frame of CNC 3018 Pro.

3D Printer | Personal Project   **June 22 – Present**

- Researched about the components of a 3D printer and later assembled one.
- Used 'Ultimaker Cura' and Fusion 360 to design and process 3D models into layers.
- Started building and selling 3D printed parts for real life applications like windmill fins, Car AC Vents, and much more.

Fire Fighting Robot   **May 21 – Present**

- An attempt taken to prevent small fires from spreading in locations like warehouses, where people are not always present.
- Designed it using SOLIDWORKS, tested the circuit in TinkerCAD, and programmed it using Arduino IDE.

RESEARCH/EXPERIMENTAL PAPERS

- Research Paper on 'Welding Robots'
- Experimental Paper – 'De-icing Salts'
- Experimental paper – Variation of potential difference with the change in perpendicular gap between a solar panel and light source.

CO-CURRICULAR ACTIVITIES

QubEat – Start up   **Sep 20 – Apr 21**

- QubEat aims to develop optimization software solutions for logistics and transportation planning.
- Created business models and pitched it with a team of three to win licensing support and office space.
- Second Runner's up in 'Eureka' – an inter-university entrepreneurship competition held in Dubai.

Sports

- Received over 15 medals in various district and state level basketball, athletics and badminton tournaments.
- Served as the High School and University basketball team captain.

ADDITIONAL INFORMATION

- Fluent in English and Hindi (both spoken and written)