Ayush Gupta

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Educational Qualifications

Degree	Institution	Board/University	Percentage	Year
B.Tech (Electrical & Electronics Engineering)	Maharaja Agrasen Institute of Technology	Guru Gobind Singh Indraprastha University	68.13 %	2014-2018
12th	S.M. Arya, New Delhi	C.B.S.E	74.8 %	2014
10th	Lord Mahavira Academy, Saharanpur	C.B.S.E	78.4 %	2012

Organizational Experience

Job Duration   -   June 2018 till date   www.agva.co.in (website)

Organization   -   AgVa Healthcare, New Delhi

Company Profile   -   It is a Research based company which aims to create some of the most innovative technologies that are not only cost effective but also more advanced than the current day technologies.
Till now we have developed the most affordable and portable Ventilator, INDIA's first 3 D Printed Robot MANAV, Prosthetic hand, Mind Controlled Wheelchair (Still in Research phase)

Client   -   **ALL INDIA INSTITUTE OF MEDICAL SCIENCES(AIIMS), SANJAY GANDHI POSTGRADUATE INSTITUTE OF MEDICAL SCIENCES (SGPGI, LUCKNOW), APOLLO.**

Profile   -   Embedded Robotics Researcher

Department   -   Research and Development

Description   -   Designing and implementing software of Embedded devices and systems

Training

- **Winter Internship 2017 at A-Set Robotics Research & Development Institute:** 6 – months internship working on various projects like Ventilator, Coil Marking Robot (Essar Steel Manufacturing Plant, Surat).

- **Summer Internship 2017 at RAVGINS(IIT-Delhi):** 8-week internship, developed On-Board Diagnostic device for Car, buses and trucks.

- **Summer Training 2016 at Maharaja Agrasen Institute of Technology**: 4-months Training at MAIT, Delhi under guidance of Prof. Pramod Kumar (EE Branch) in the field of "Basic Electronic Circuit Designing (August 2016 – November 2016).

- **Winter internship 2016 at Indira Gandhi International Airport**: 4-week internship at IGI Airport, New Delhi in DIAL department.

Projects

1. **Coil Marking Robot**: Worked upon Coil Marking Robot which is designed to mark hot steel coils at the temperature of 1000 C. The Robot was specifically designed for Essar Steel Manufacturing Plant, Surat, Gujarat. INDIA.
2. **Ventilator:** Implemented software for Ventilator in ATMEL-Studio.
3. **8 – bit Programmable Computer (Von Neumann Architecture)** using 74LSxx consisting of 53 different IC's.
4. Built "**Voice Recognition System"** using Arduino and Bit-voicer server.
5. Working on **"Snake Bite Detection and Treatment System"** using DragonBoard410C.
6. Built OBD-Device for cars, buses and trucks.
7. Built a **Wireless Keyboard and Mouse using** ATMEGA-328/P.
8. Built a short-range **FM Transmitter Bug**.
9. Built a **weather Station** using Esp8266 (IOT).

Technical Skills

- **Software   :**   Image and Video Processing (MATLAB), Eagle, ATMEL Studio
- **Language   :**   Introduction to C language, Python.
- **Hardware   :**   Raspberry Pi, DragonBoard 410C, Arduino
- **MS Office   :**   Word, Excel (basic), PowerPoint.

Extra-Curricular Activities

- Presented a Research paper on **"Snake Bite detection And Treatment System"** in an **International Research Conference (IARDO)** held at JNU, Delhi. Published in Lambert Publications, Germany (ISBN- 978-3-330-34917-9).
- **"Data Acquisition Head"** of Jatayu, **Automotive Society** of Maharaja Agrasen Institute of Technology.
- Organized **"Rotary Blood Donation Camp" as Co-Head** in the registration department.
- **Hosted and Organized NASA Space Apps Challenge 2018** in Delhi at 91SpringBoard, Noida.
- Participated in **APMC-IMARC Sight and Ham Radio Conference**.
- Attended a **"Hands-on Hardware Design Workshop" by Texas Instruments.**
- Participated as **a speaker on IOT (Internet of Things)** in IEEE MAIT student branch.

Online Courses

- Introduction to the Internet of Things and Embedded Systems, **University of California, Irvine**.
- The Arduino Platform and C Programming, **University of California, Irvine.**

Declaration

I hereby certify that all the information furnished here is correct to the best of my knowledge and belief and I promise to abide by all the norms laid down by your esteemed organization.

AYUSH GUPTA