KUNAL APPASAHEB GUJAR

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ACADEMIC QUALIFICATION

B.E. Electronics and Telecommunications from PCET's College of Engineering and Research, Ravet affiliated to Savitribai Phule Pune University, Pune, Maharashtra, India. CGPA:8.17; April '22

WORK EXPERIENCE

Graduate Apprentice, HEMRL (DRDO), Maharashtra   **Feb – Jun '23**

Learn about IT Hardware Support, Telecom Systems (EPABX), Machine Learning, Documentation, Data Entry, and MATLAB (Machine Learning).

Online Intern, Anand Techno Creations, Maharashtra   **Aug – Sep '20**

- Learn about Product Design aspects and requirements, Basics of Electronics, PCB Design and mounting, Circuit Design, and GSM Modem functioning
- Acquire an understanding of IPR and Patent guide and involve in report writing

RESEARCH PROJECTS

Title: IOT-Based Vertical Farming Using Hydroponics for Spectrum Management and Crop Quality Control
Duration: Jan – Jun '22
Team size: 4
Description: Designed a vertical farm comprised of two distinct soil layers with individual lighting, a water supply unit, a moisture sensor, and a temperature sensor. The front end of the design features solenoid valves which would feed water through a low voltage water pump from an overhead water tank. The lighting fixtures for the farm would automatically brighten up or dim in intensity based on the level of lighting in its environs. At the back end, the farmer can view live data of the plant's performance. The farmer can switch between automatic and manual modes which would allow him to perform routine maintenance on the farm during which he can manually control the irrigation.

PUBLICATIONS

- Rahul G. Mapari; Kishore Bhangale; Nikhil Jagtap; Kunal Gujar, Harish Tiwari; Akash Mahajan; Yash Sarode, "IOT Based Vertical Farming using Hydroponics for Spectrum Management and Crop Quality Control." published in 2nd International Conference on Intelligent Technologies (CONIT 2022), 24th Jun '22, doi: 10.1109/CONIT55038.2022.9848327, page no. 1-5

AWARDS & ACHIEVEMENTS

- Copyright obtained for Project IOT Based Vertical Farming using Hydroponics for Spectrum Management and Crop Quality Control, '22
- Won 1st prize at UGCON (College level) project Competition, PCCOER '22

CERTIFICATIONS

- The Fundamentals of Digital Marketing, Google, '20
- Google Technical Support Fundamentals, Coursera, '20
- AWS Fundamentals: Going Cloud-Native, Coursera, '20
- Introduction to Cloud Identity, Coursera, '20
- Cloud Computing Basics [Cloud 101], Coursera, '20
- Introduction to the Internet of Things and Embedded Systems, Coursera, '20
- Programming for Everybody [Getting Started with Python], Coursera, '20

WORKSHOPS & CONFERENCE

- Training workshop on Product Development, Anand Techno Creations, Mar '21
- Workshop on 'C++ and Python' by IETE. the knowledge of GUI Interface and QR code making, '20
- Workshop on 'Internet of Things' in Partnership with Microsoft, '20
- Training by Hackers Era conducted on 'Cybersecurity Essentials and Ethical Hacking', Aug '19
- Attended CIPCIS Conference Event, PCCOER, '18 - '19

PRESENTATIONS

- IOT Based Vertical Farming using Hydroponics for Spectrum Management and Crop Quality Control, UGCON 2k22, Jun '22
- IOT Based Vertical Farming using Hydroponics for Spectrum Management and Crop Quality Control, IEEE Conit 2022, Jun '22

- IOT Based Vertical Farming using Hydroponics for Spectrum Management and Crop Quality Control, NMIET TechCult 2k22, May '22
- Wireless Mobile Charger with Magnetic Coil, PCCOER PBL (Project Based Learning), Mar '19

TECHNICAL SKILLS
- Operating Systems: Linux (Kali, Ubuntu), Windows, Mac.
- Programming Language: Python, Python Libraries. (Django, Python, NumPy)
- Basic concept of Ethical hacking, Internet of Things (IOT), AWS, SQL

EXTRACURRICULAR ACTIVITIES
- Participated at TechCult 2k22 (National Level) Project Competition, '22
- Volunteer with a chair community during CIPCIS organized by PCET's Pimpri Chinchwad College of Engineering and Research which dealt with startups, patents, and innovation, '18 -'19
- Student Volunteer at Kinara Old Age Homes, '18