

# Vaibhav Kumar

Chandigarh, India

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## EXPERIENCE

### Apasteron Private Limited, Noida — *Python Developer*

15 April 2020 - Present

- Web-application development, remote setup and deployment using python

### CSIR-CSIO, Chandigarh — *Project Assistant*

20 September 2018 - 31 March 2020

- Design, Modelling, Simulations and testing of Machine Learning Algorithms for AI-based Motion Detection, localisation and Object Classification using Ultra-Wideband Radar sensor array in highly cluttered Environment using MatLab and Python
- Socket and Network programming for connecting sensors and Data collection at the central server using python and MongoDB
- Database setup and management using MongoDB
- Advanced Signal Processing, filters and data processing using MatLab and Python, Development of desktop GUI, for on-site deployment, using PyQt5, python
- Design and development of parts for prototyping of the project using Solidworks and 3D Printing

### AKGEC Skills Foundation, Ghaziabad — *Project Engineer*

04 September 2017 - 20 September 2018

- Training, Support, Maintenance and installations
- KUKA KR6 Industrial Robot for pick and place operation by using Robotic Vision application using MatLab
- Installation and Integration of BRANSON Ultrasonic Welding Machine on KUKA KR 6 Agilus Robot for Robotic Ultrasonic Welding Project
- Preparation of teaching and training assignments
- Successfully conducted Promotional activities, Workshops and other competitive programs

## SKILLS

### Advanced

Industrial Robot Programming  
Python  
Matlab  
MongoDB

### Novice

Robotic Welding  
Robot Simulation Programming  
ROS  
Robotics  
Machine Learning  
Django  
Javascript  
Machine Vision  
Solidworks  
3D printing  
Data Analysis  
Data Visualization  
Matplotlib, Seaborn, Pyqtgraph  
pyqt5-GUI Development  
SQL and Databases

### Fundamental Awareness

PLC Programming  
Pneumatics and Hydraulics  
Autocad, NX CAD/CAM  
Raspberry Pi, Arduino  
Artificial Intelligence  
HTML, CSS  
HDF5

## EDUCATION

### **Ajay Kumar Garg Engineering College, Ghaziabad**

*M.Tech - Automation & Robotics*

*Final Year Project*

*Vision Guided Industrial Robot to perform handling operation*

### **ABES Engineering College, Ghaziabad**

*B.Tech - Mechanical Engineering*

*Final Year Project*

*Fabrication and design of Savonius rotor type vertical shaft wind turbine*

## CERTIFICATIONS

### **KUKA Industrial Robot Programming - KUKA College**

*Basic and Advanced*

### **IBM Data Science Professional Certifications — Coursera**

*Data Analysis, Data Visualization, Python, SQL, Machine Learning, Data Science Methodology, Open Source Tools*

### **Solidworks and Autocad Training — LeLogix CAD Centre**

*4-week Certificate Training*

### **Robotics and Embedded 'C' — Robosapiens India**

*Workshop*

## PROFESSIONAL SKILLS

MS Office (Excel, Word, Powerpoint, Publisher, Outlook)  
Windows 7,8,10 and Linux  
G Suite (Drive, Docs, Sheets, Slides, Forms, Calendar, Google+, Sites, Hangout and Keep)  
Strong Writing skills like project proposals and press articles in Hindi and English  
WordPress Web-Design  
Video and Graphic Design

## PERSONAL SKILLS

Creative, complex problem solving,  
Emotional Intelligence,  
People management,  
Proactive, system-focused and development-oriented  
Self-Motivated, Quick-Learner,  
Constant endeavour to improve,  
Ability to interact successfully with the uncertainties of change and to leverage change for meeting organizational objectives better