Akhilesh Kumar

http://branded.me/akhilesh_k
akhilesh_k@outlook.com | +91-9829754634
14-H 45-D Azad Bhawan, JUIT Waknaghat, Himachal Pradesh-173234

EDUCATION

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT
B.Tech Electronics and Communication Engineering
Freshmen
Expected June 2020
CGPA: 6.6/10.0

C.G. SCHOOL, BHABUA
High School
Grad. April 2015 | Bhabua, India
Percentage: 72.4%

D.A.V. PUBLIC SCHOOL
Certificate of Merit
Grad. April 2013| Sasaram, India
CGPA: 10.0/10.0

LINKS

Github:// **akhilesh_k**
LinkedIn:// **akhilesh_k**

COURSEWORK

Programming & Data Structures
Discrete Mathematics
Basic Electronics Devices & Circuit
Advanced Calculus
Artificial Intelligence (EdX)
The Arduino Platform and C Prog. (Coursera)
Introduction to MATLAB (EdX)
Control of Mobile Robots (Coursera)
Machine Learning (EdX)

TECHNICAL EXPERTISE

Hardware
ATmega • Arduino • Raspberry Pi • TI Development Boards

Software
Pspice •LabView •SolidWorks •Proteus •Visual Studio •Gazebo

Languages
C • Python • C++ • LaTeX• MATLAB • BASH • PHP •Embedded C

Systems
Git •OpenCV •Internet of Things

EXTRA-CURRICULARS

Elocution • Dramatics • Basket Ball

RESEARCH EXPERIENCE/ PROJECTS

UNDER WATER GLIDER FOR REAL TIME MAPPING WITH SENSORTAG IOT SYSTEM | ACM-Electronics Team |
December 2016 – January 2017
- Accomplished automated movement of the glider controlled with a ballast system. Developed obstacle-avoiding feature and algorithm for mapping of environment using MATLAB.
- Used Sensor Tag TI CC2650 to pair it with Raspberry Pi device and retrieve data in real time on web interface.
- Glider was balanced using accelerometer.

IOT BASED POLLUTION MONITORING AND WASTE MANAGEMENT FOR SMART CITIES | ACM Electronics Team | March 2017 – Present
- Accomplished communication between Dustbins acreoss the city and server on web platfrom.
- Interfaced Xbee modules with Raspberry Pi for dustbins localization.
- Conceptualized model of routes optimization for waste pickups using Google Maps API.

MOTION IMITATING AND PATH REPLICATING ROBOT ENABLED WITH MAPPING | Project Leader | March 2017-Present
- Bot based on Arduino and interfaced with Raspberry Pi
- Bot uses a Pi cam as input to handle control & object recognition using OpenCV.
- Real time video streaming with python client on Raspberry Pi.

INTELLIGENT ALARM SYSTEM WITH ANDROID INTERFACE | Project Member | October 2016-December 2016
- Pattern recognizing alarm based on Arduino which can set on from an android UI.

INCOMING MAIL NOTIFICATION SYSTEM | February 2016-Present
- Built on Pyton Tkinter and serverside on Flask

POSITIONS OF RESPONSIBILITY

MEMBER OF ORGANIZING COMMITTEE | Technical Team | February 2016
- As part of the university's official Annual Techfest- Murious XI

ORGANIZING MEMBER | IPR Cell- JUIT
- Organized Workshop on Patent filing

CO-CURRICULAR ACCOLADES

Mar, 2017	Participated in National Level Dramatics Competetion- Manthan
Feb, 2017	2nd in University's Dramatics Competition- Hallla Bol
Oct, 2013	National Level Chess- CBSE