Priyanka Kurkure

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OBJECTIVE

A self motivated undergraduate seeking an internship program in a vibrant organization to improve my knowledge through research and practical experiences.

EDUCATION

Course / Examination	Board	Year	Institute/School	CGPA / %
B.Tech (Electrical Engineering)		**2015-2019** (present)	**Indian Institute of Technology Ropar**	**8.1 / 10** (till 5th semester)
Intermediate (Class XII)	State Board	2014-2015	Shivchhatrapati College (India)	90.77%
Matriculation (Class X)	State Board	2012-2013	S.B.O.A. Public School (India)	96.18%

RELEVANT UNDERGRADUATE COURSEWORK

Measurement and Instrumentation*	Fundamentals of Wireless Communication*	Digital Image Processing and Pattern Recognition*
Digital Electronics	Communication Engineering	Data Structures and Algorithms
Analog Electronics	Engineering Electromagnetics	Digital Signal Processing

**Courses pursuing in the current semester, from August 2017 to December 2017.*

INTERNSHIPS AND PROJECTS

1. Generic IoT Platform, Ekalavya Summer Internship - IIT Bombay |Team of 7| [May 2017- July 2017]

(Guide: Prof. Dr. D.B. Phatak, Prof. Dr. Kannan M. Moudgalya, Sr.Project Manager Rajesh Kushalkar, IIT Bombay)
Project Link: https://github.com/priyanka-vk/Generic-IoT-Platform

- The internship aimed at creating a generic Internet of Things (IoT) platform for developers as well as users.
- The dashboard was created and bi-directional communication was implemented between platform and hardware devices using NodeMCU (WiFi Module).
- An application- **Smart Plug** was developed based on the results obtained from previous implementations. It basically controls all the devices plugged into it using a web application wirelessly.

2. Home Automation Project using Arduino |Team of 2| [Oct 2016- Nov 2016]

(Guide: Dr. Rohit Y. Sharma-Asst. Professor, IIT Ropar)
Project Link: https://github.com/priyanka-vk/home-automation

- The project aims at reducing the energy wastage by switching off the lights and fans in a room using up-down counter when no person is present inside.
- The project was also presented in Digitrix- The Annual Electronics Exhibition held at IIT Ropar.

3. Number Theory and Factorial Computation of large numbers [Sept 2017-Oct 2017]

(Guide : Dr. Puneet Goyal-Asst. Professor, IIT Ropar)
Project Link: https://github.com/priyanka-vk/factorial-computation

- Studied number theory and developed an algorithm to calculate the factorial of large numbers without using recursion.
- The basic data structure used to compute the factorial of numbers as large as 1000 is linked list.

4. RF based Secured Remote Controller |Team of 3| [Oct 2017-Nov 2017]

(Guide : Dr. Suman Kumar-Asst. Professor, IIT Ropar)

Project Link: https://github.com/priyanka-vk/RF-based-Secured-Remote-Controller

- Created a secured remote controller to control various household appliances from distances upto 50-60 meters.
- The control and functioning was authenticated by secured address bits transmission with the data bits.

5. Astable Multivibrator using Transistors [March 2017-April 2017]

(Guide : Dr. Vinayak Hande-Asst. Professor, IIT Ropar)

Project Link: https://github.com/priyanka-vk/Astable-Multivibrator-using-Transistors

- Studied various properties of Bipolar Junction Transistors and implemented an astable multivibrator using transistors.

TECHNICAL SKILLS

Programming Languages : C, Embedded C, MATLAB, C++
Software Packages : SolidWorks, NodeRed, Fritzing, KiCad, Eagle, Mosquitto, Proteus
Micro-controller Tools : Arduino IDE, NodeMCU programming using Arduino IDE
Operating Systems : Windows, Linux (Ubuntu)

TRAINING

1. Androbot training, Entrench Electronics - Ropar |Team of 2| [Oct 2015]

- Learnt to build a robot by creating an interface between the micro-controller and Bluetooth.
- The micro-controller used was AVR Atmega8 and the interface was created using AVR Studio 4.

2. SparshBot training, Entrench Electronics - Ropar |Team of 2| [Oct 2015]

- Learnt to build a robot by creating an interface between the Microcontroller and Touch Screen.
- The input and instructions were given to robot by touch hence the name 'Sparsh (meaning *touch*) Bot'.

3. Machine Learning Online Course ,Coursera - Stanford University [Dec 2017-March 2018]

- Currently pursuing an online non-certified Machine Learning Course on Coursera being conducted by Prof. Andrew Ng (Adjunct Professor, Stanford University).

ACHIEVEMENTS

- Among the **top five students** in Electrical Engineering Department at Indian Institute of Technology, Ropar. [2017]
- Awarded Distinction in AUSTRALIAN NATIONAL CHEMISTRY QUIZ organized by The Royal Australian Chemical Institute, Australia. [2009]
- Secured All India Rank 197 (Merit) in ALL INDIA OPEN MATHEMATICS SCHOLARSHIP EXAMINATION organized by Institute of Promotion for Mathematics (IPM). [2012]

EXTRA-CURRICULAR ACTIVITIES

- Active Member of Enactus, IIT Ropar Team.
- A member of BloodConnect IIT Ropar and represented the college team at **Annual Event'16 (AE)** of BloodConnect held at IIT Delhi in July 2016.
- Active Member of Organizing Committee of MUN, IIT Ropar.
- Mess Representative of Transit II mess, IIT Ropar.