

Priyanka Kurkure

<https://priyanka-vk.github.io/>

Bachelor of Technology

Third Year Undergraduate

Electrical Engineering Department

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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	8.05 / 10 (till 4 th 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

Analog Electronics	Circuit Theory	Power Systems*
Digital Electronics	Communication Engineering	Data Structures*
Introduction to Computing (C Lang)	Engineering Electromagnetics*	Digital Signal Processing*

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

INTERSHIPS 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)

- 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)

- 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. Dust collecting black board cleaner |Team of 4| [March 2016- May 2016]

(Guide: Dr. Anshu Dhar Jayal , Dr. Jitendra Prasad, Dr. Satwinder Singh-Asst. Professors, IIT Ropar)

- Unlike normal chalk duster, successfully designed a dust collecting black board cleaner that made use of rollers and brushes to clean the board and the collected chalk dust can be reused.
- The product was designed keeping in mind the major issues and problems faced by teachers and people suffering from dust allergies and some severe disorders.

TECHNICAL SKILLS

Programming Languages : C, Embedded C, MATLAB
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'.

ACHIEVEMENTS

- Among the top three 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.
- Represented Volleyball Team of IIT Ropar at Sangram- IIT Roorkee Sports Fest in April 2016.