Prerna Khanna

CONTACT INFORMATION

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RESEARCH INTERESTS

Mobile Computing, Signal Processing, Robotics, Machine Learning

EDUCATION

Bharati Vidyapeeth's College of Engineering 2016 - 2020
New Delhi, India
B.Tech. in Instrumentation and
Control Engineering CGPA: 8.95

Loreto Convent School, New Delhi
12th C.B.S.E 92% 2016

Loreto Convent School, New Delhi
10th C.B.S.E CGPA : 10 2014

INTERNSHIPS AND INDUSTRY EXPERIENCE

Researcher and Developer Jul. 2017 – Present
Endolite India Pvt. Ltd.
Development of Upper Extremity Prosthetic Limbs – PCB circuit design and Software.

Research Intern June 2019 – Present
IIIT Delhi
Mentor: Dr. Anubha Gupta

Research Intern May 2018 – Oct. 2018
Celestini Project India, Marconi Society, IIT Delhi.
Developed Air Cognizer: Predicting Air Quality with images
Led by: Dr. Aakanksha Chowdhery **(Google AI)** and Dr. Brejesh Lall **(IIT Delhi)**

Trainee Dec. 2016 – Jan. 2017
Minda Corporation, Noida

AWARDS AND ACHIEVEMENTS

- Air Cognizer was featured at **Google I/O' 19** in a session called: "What's new in Android Machine Learning".
- Presented a **demo** and Air Cognizer was featured in the **keynote** at the **TensorFlow Dev Summit 2019, Sunnyvale, CA.**
- **Awarded the Paul Baran Young Scholar's Celestini Prize India 2018.**
- **Winner of Project Exhibition Evotech 2.0.**

LEADERSHIP EXPERIENCE

- Conducting workshops to teach **programming concepts** on Arduino in Delhi Schools. 2019 - present

- **Chapter Representative** BVP IEEE student branch. 2017 – 2018
- **Event Coordinator**, Fervor Technovation: Technical Project Exhibition at College. 2018
- **Head** School Quiz Club. 2015 – 2016

TECHNICAL PROJECTS

- **Circuit and Software** for Upper Extremity **Prosthetic** Ongoing
- **Survival Analysis** for Multiple Myeloma Ongoing
- Self-Healing Mesh Network for Autonomous Drones 2019
- "**Mocking Bot**" Audio processing to extract notes from music and detect the instrument. 2019
- **"Air Cognizer"** Air Quality Analytics Application using Mobile Phone images 2018
- **"Moonshine"** Breath analyzer 2018
- **"Vision" IOT** based SONAR System 2018
- **Haze Removal** using Dark Channel Prior in Python 2017
- **Obstacle Avoider** using Edge Detection in Python 2017
- "**WieAssist**" A women safety android application 2017
- **CNC Machine** using Arduino and Stepper Motors 2016

TECHNICAL SKILLS

- JAVA, Python, MATLAB, Embedded C
- Signal Processing, Computer Vision, Machine Learning
- Android Development, PCB Designing
- ATMega, Raspberry Pi, Arduino