Bikram Kumar Panda
Second Year PhD Student ,
Computational and Data Sciences,
Indian Institute of Science Bangalore

+91-8806229144
bikrampanda@iisc.ac.in

ACADEMIC DETAILS

Degree/Certificate	University/Board	Year	CGPA/%
PhD (Computational and Data Sciences)	IISc	2019-Present	8.4
BE (Electronics and TeleCommunication)	AIT Pune(S.P.P.U)	2014-2018	65.3%
Class XII	APS Kirkee(CBSE)	2013-2014	93.8%
Class X	APS Kirkee(CBSE)	2011-2012	89.3%

OBJECTIVE

- To make use of my skills and capabilities for contributing to current advancements in Technology and in the process learn and gain exposure for up-scaling my skills.

MAJOR PROJECTS

- **Dual clock FIFO for same and different port sizes | June'20 | IISc**
  - Implemented a fully functional and synthesizable FIFO design with same and different port sizes.
  - **Technology Used:-** VHDL, Xilinx Vivado
- **Hand Gesture Recognition on an Embedded System | June'20 | IISc**
  - Designed and implemented a Hand Gesture Recognition using ANN on Tiva C series TM4C microcontroller.
  - **Technology Used:-** Tiva C Series TM4C123G Launchpad Evaluation Board.
  - **Project Link:-** will be updated soon
- **Implementing Hopfield Neural Net on FPGA | Dec'19 | IISc**
  - Designed and implemented an IOT system using **esp8266**.
  - **Technology Used:-** ESP8266
  - **Project Link:-** https://github.com/bikipanda/dvlsi
- **Real Time Vehicle detection on RPi | Dec'19 | IISc**
  - **Technology Used:-** Rasp Pi, Mobile-net NN
  - **Video Link:-** https://youtu.be/gDruVo4hBDc
- **Inexpensive wifi IOT solution | March'16 | AIT Pune**
  - Designed and implemented a small IOT system using **esp8266**.
  - **Technology Used:-** ESP8266
- **Bootloader for CARDIOTRACK™ | Dec'16 | UBERDIAGNOSTICS LTD.**
  - Designed and implemented a bootloader for wireless update of CARDIOTRACK™.
  - **Technology Used:-** DSPIC33 , Embedded C , Python
- **Digital Braille(BRAILLESPARK) | Sept'16 | AIT Pune**
  - Prototyped a digital system to replace traditional Braille Scripts.
  - **Technology Used:-** Arduino , C

- **Project Video:-** https://youtu.be/nwvFmfQR82E

- **Distance Calculation Using Webcam, laser and OpenCV | Dec'15 | NSIT Delhi**
  - Designed and implemented an algorithm to measure the distance of obstacle on which LASER light is falling.
  - **Technology Used:-** BeagleBoneBlack , Python , OpenCV
  - **Project Video:-** https://www.youtube.com/watch?v=8nUevIQ-P4o

Internships/Workshops Attended

- CardioTrack Dec'16 - Jan'17
  Uberdiagnostics Ltd.(Bangalore)
  - The month long internship was focused on building a software system that eliminated the problem of outdated codes on their products.
- Embedded System Design with Beaglebone Black Dec'15 - Jan'16
  NSIT TI-CEPD(New Delhi)
  - The month long programme focused on core electronic subjects, PCB fabrication and Embedded System Design with Beaglebone Black.

Technical Skills

- **CAD Tools:** Xilinx Vivado , Cadence Design Tools for ASIC flow
- **Hardware Description Language :** VHDL and Verilog.
- **Programming Languages:** embedded C , C , Python , mySQL .
- **Hardware Platforms:** Tiva TM4C , Rasp Pi , Beaglebone Black , DSPIC33
- **Software Packages:** LATEX , Xampp , MPLABX , Cadsoft Eagle , Multisim
- **OS Platforms:** Linux (Familiar with Ubuntu) , Windows-7.

Extra-Curricular Activities

- Selected as one of the 10 teams all over India to present a project at **Make In India 2016** Hackathon , **IIT Bombay**.
- Selected as one of the top 17 teams to present a project at **BHAU BOOT CAMP** for product startup at **COEP**.

Positions of Responsibility

- **Student Secretary, IETE AIT Pune** Member of Student Council.
- **Conducted** a workshop on **PCB Fabrication** for immediate juniors.
- Organised **Arduino workshop** for first and second years.
- Organised **MATLAB** workshop for my batch.

Personal Summary

- I am an ambitious and hardworking individual. I believe that planning before working and honesty are my greatest strengths. I have a strong desire to learn new things and want to see myself grow into a better individual.