Ankita Mukherjea

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EDUCATION

Techno India, Saltlake
West Bengal University of Technology
BTech in Electronics and Instrumentation Engineering
August 2015 - 2019
Current CPI-8.91/10
Class Rank-Top 3%

COURSEWORK

West Bengal University of Technology:
Biomedical Instrumentation
Digital Signal Processing
Electronic Measurement
Sensors & Transducers
Process Control
Control Theory
Optoelectronics
Microprocessors
Microcontrollers
Computer Architecture
Electromagnetic Field Theory
Numerical Methods
Digital & Analog Electronics
Circuit Theory and Networks
Linear Algebra and ODE/PDE

Delhi Public School, Ruby Park
Higher Secondary School
June 2013 - April 2015
12th grade – 88.8%

Garden High School
Junior Secondary School
June 2006 - April 2013
10th grade– 92.6%

Independent Coursework:
- Introduction to Machine Learning (Stanford University, Coursera)
- Fundamentals of Digital Image and Video Processing Northwestern University*
- Robotics: Vision Intelligence and Machine Learning (PennX-ROBO2x)
- Artificial Intelligence (AI) (CSMM.101x)
- Robotics: Fundamentals (PennXROBO1x)

*ongoing

AWARDS AND ACHIEVEMENTS

Google India Challenge Scholarship, February 2018, for pursuing Android Basics Track in Udacity
Fermi Laboratory, Intern-Me Program organised by Lab-X Foundation, 2018, top 10 contender for VHDL internship
Semi-finalist in Indian Region: Go Green In the City by Schneider Electric, 2018, top 49 for Automated Traffic Rerouting
Semi-finalist: US India TechnoUtsav (US-Hyderabad) by Deloitte, 2018, for Automated Traffic Routing
Awarded Certificate of Merit for the year 2016-17 for securing highest rank in the department
Technical Essay, 1st position, 2017, by Techno India SPIE Student Chapter
Technical Presentation, 2nd position,2017, *Optical Coherence Tomography,* by Techno India SPIE Student Chapter
State Award (Rajyapuraskar), awarded by the Governor of West Bengal in 2013 for Bharat Scouts and Guides

RESEARCH/PROJECT HIGHLIGHTS

Automated Traffic Routing, Jan 2018-Present, using OpenCV image analysis, ML, database, cloud computing (View Report)
Sleep Apnea Detection in Neonatals, March 2018, developed a low cost detection system based on respiration rate and alarm if an anomaly occurs
FPGA based Parking System, 2018
Remote Research & Development Intern, 2018, National University Of Singapore, currently working on a paper on Healthcare Devices
IoT Based Biomedical Signal Analysis, 2017, ECG module, PPG sensor outputs and integration by Raspberry Pi

INTERNSHIPS

Techrishna Innovations Pvt Ltd, Intern, 2018, Embedded Systems
CESC Ltd., 2017, Trainee, SCADA and Optical Communication

SKILLS

Languages – **Python, C, C++, Java, SQL, Bash, VHDL**
Packages – **OpenCV, MATLAB, IBM Bluemix, Visual Studio**
Softwares – **Oracle, Eclipse IDE, PSPICE, Proteus, Android**
Hardware – **Arduino, Raspberry Pi, FPGA**

LEADERSHIP ROLES

Head of Editiorial, Geekonix (Science club), Techno India
July 2017 - PRESENT
Managed the editorial team and edit content of technical events on the campus
Secretary, IET Student Chapter, Techno India Aug 2017 - PRESENT
Organized workshops for Institute of Engineering and Technology
Member, Community service volunteer, Panacea
March 2017 – PRESENT
Helping underprivileged children get access to educational amenities through mentoring programs and funds