Saptarshi Mitra May 14, 1995

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Academic Details

Examination/Degree	University	Year	GPA/%
Bachelor of Technology:			
Electronics & Communication Engineering	NIT Durgapur, India	2017	9.14/10
Higher Secondary Examination	WBCHSE	2013	88.8;Percentile: 99.97
10th Std. Examination	WBBSE	2011	86.5

Test Scores

Name of the Examination	Score	Date
Test of English as a Foreign Language:	104	
TOEFL-iBT	(Reading-28,Listening-28,Speaking-23,Writing-25)	18th Nov,2016

Publications

Paper presented: Sayan Sarkar, Gautam Ghosh, Amitrakshar Mohanta, Atreye Ghosh, **Saptarshi Mitra**. *Arduino Based Foot Pressure Sensitive Smart Safety System for Industrial Robots*, Second IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2017)

Paper presented :Sreetama Sarkar, **Saptarshi Mitra**, Tamoghno Nath and Dr. Sanjay Dhar Roy. *Performance of Different Power Control Schemes for a Hybrid LTE System with Channel Impairment*, The 2017 International Electrical Engineering Congress (iEECON 2017), Thailand

Experience

Verizon	Hyderabad, India
Software Engineer	Jun 17 – Present
Network & Technology Group	
TCS Innovation Labs	Kolkata, India
Research Intern	May '16 – July '16
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Localization of mobile Robots with ROS

IIT Kharagpur

Course Attendee

Clobal Initiative Of Academic Networks: International Summer and Winter Term Special Topics on

Global Initiative Of Academic Networks:International Summer and Winter Term Special Topics on Robotics: Autonomous and Field Robotics-Micro-Nano-Robotics Manipulation - Medical Robotics

Bharat Electronics Limited

Hyderabad, India

Intern, Customer Care

June 15 – July 15

Project on Electronic Warfare Systems with Emphasis on ESM under A. Ramakrishnan at Hyderbad Facility

Electronics Corporation of India Limited

Kolkata, India

Trainee

Dec '14 - Jan '15

Developed a Project on Embedded systems Password protected Vehicle Locking System using GSM technology with ATmega8

Academic Projects

'The Investigation of Power Control Schemes for a Device-to-Device Communication integrated into OFDMA Cellular System'

under Dr. Sanjay Dhar Roy at NIT Durgapur

- Analysis of the performance of different power control schemes(CFOL-DSINRT,CFOL-DFIX,CFOL-DFOL etc)in a hybrid LTE system
- Simulation of CDF with Tx. power and SINR in Matlab
- Introduced Channel impairments(Shadowing,Fading)in simulation

'A Method for Measuring ,Comparing and Correcting Dead-Reckoning Systematic Errors in Mobile Robot' Summer' 2016

under Ranjan Dasgupta at TCS Innovation Labs, Kolkata

- To identify the Dead reckoning Systematic and Non-Systematic Errors of Mobile Robots and their sensors
- Performed UMBmark test with FireBird VI to calibrate odometer values and introduce a correction term in wheel base diameter in the dynamic Equation of Differential Drive Robot
- · Moved further to different primary sensors so that Robot localization can be achieved more accurately

'Safety System for Robotic Work Environment'

2015-16

The model was designed as a part of General Electric's Edison Challenge 2016 (Team ArdIOT, NIT-Durgapur) and was shortlisted for the final rounds

• A real-time, MEMS sensor (PZT material) based, economical approach with IOT integration to ensure the safety in robotic workspace by shutting the robot system off or slowing it down upon human entry

'Embedded systems: Password protected Vehicle Locking System using GSM technology' 2014-15 conducted by Electronics Corporation of India Limited

- Designed a security system for vehicle against theft with Atmega8a microcontroller
- Used GSM technology to remotely alert owner about unusual activities

'Stop Reuse Save Life: A new model of disposable syringe'

2009

participated in IRIS science fair conducted by INTEL corporation ,CII and DST held at Ahmedabad. Won 'Best of Subject Category: Engineering' in INDIA

• Proposed and designed an Injection Syringe which can only be used once and thus stopped spreading of diseases by reusing

Scholastic Achievement

EEG based home automation

2016

Idea was to implement home automation through EEG signals to help severely disabled people(e.g. people with ALS). Paper presented at **Festival of Innovation 2016 at Rashtrapati Bhawan.**

Scheme of Scholarship for College and University Student reg. of Government of India

2012

Got an award on the basis of Higher Secondary Examination held by West Bengal Council of Higher Secondary Education

DST-INSPIRE Internship Science Camp

2011

Selected and Participated at JBNSTS, Kolkata

Department of Science Technology (DST) sponsored INSPIRE award

2010

for academic excellence from 6th to 10th standard

Skills

C , Arduino , MATLAB , Multisim , C++ , ROS , Assembly Level Programming: 8085, 8051, x86 , Atmel Studio , Cadence Virtuoso , Raspberry Pi , Keil uVision , Python (Basic) , HTML , Pspice , Cadsoft Eagle

Extra Curricular Activities

Google Online Marketing Challenge (GOMC) 2016

201

Partnered with www.mayallyang.com on creating AdWords online marketing campaign for their expansion of Ecotourism . Ranked : Good

Quizzing; Won contests in college and outside

ABHIVYAKTI(Paper Presentation Event) and TC/DC Circuit Design Event

2016

Consecutive Winner at AAROHAN 2016 and 2017, Techno-Management Fest, NIT Durgapur

DuckDuckGo and Mozilla(l10n,e10s,webVR)

2014-Present

Community member and Active Contributor