

Tamojit Saha

Résumé

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Tamojit-Saha
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Education

- 2017 – 2019 **M.Tech in Electronics and Communication Engineering**, *Institute of Engineering and Management, Kolkata, Semester GPA 7.62 (first semester).*
- 2013 – 2017 **B.Tech in Electronics and Communication Engineering**, *Techno India University, Cumulative GPA 8.63, Last Semester GPA 9.21.*
- 2013 **Higher Secondary Education (12th Standard)**, *Delhi Pulic School, Central Board of Secondary Education, 76%.*
- 2011 **Secondary Education (10th Standard)**, *Delhi Pulic School, Central Board of Secondary Education, GPA: 8.8/10.*

Publication

Conference

Aditya Mukherjee, Tamojit Saha.

Precision Thermocouple Amplifier for substrate temperature monitoring in an ECR-PE nano-film deposition system, 2018.

Tamojit Saha, Sandeepan Sengupta and Tanmoy Dasgupta.

Chaotic Cipher Based Spatial Domain Steganography with Strong Resistance Against Statistical Attacks, 2017.

Projects

- 2018 **miniDAC**, *Open Source.*
Unipolar digital to analog converter (DAC) module for Arduino™ built around LTC®2633
- 2017 **ChaosKit**, *Open Source.*
Steganography toolkit developed using Python and OpenCV implmenting multiscroll attractor and mathematical morphology
- 2017 **SafeLink**.
Authentication scheme for microcontrollars with features like encryption, intrusion detection and lockdown timer
- 2016 **SyncLED**, *Open Source.*
PC accessory to control cabinet fans and RGB LED with features like automatic fan type detection, synchronizing LEDs with system temperature using Windows application etc.
- 2015 **LumiNode**, *Open Source.*
Bluetooth controlled RGB LED system that can be operated using Android application

Engineering and Computer skills

Languages	C, Python, Arduino and AVR Assembly (limited works)	Additional	LaTeX, HTML, CSS, Java, C++, C# (limited experience in OOP)
Design Tools	Eagle CAD, SketchUp, Xilinx ISE	Simulation	MATLAB, SciLab, SPICE
General	Document Editors, Spreadsheets, Slide Presentations, Photo Edit	Others	PCB Fabrication, Soldering, Electrical Testing, Web Design

Experience

Research

2017 **Academic Research on Security.**
Worked on applications of chaotic cipher leading to *IEEE conference* paper

2016 **Industry Oriented Academic Research.**
Designed and developed embedded controller module for portable solar-powered devices

Teaching

2015 – 2017 **Project Mentor.**
Mentored undergraduate students of regional engineering universities for projects

Industry

2016 **Vocational Training in Indian Railways.**
Participated in a vocational training program on communication in Test Control Center, Indian Railways, Howrah Division

2013 – 2016 **Industry Visit at Power Plants.**
Visited control system facilities of power plants run by West Bengal Power Development Corporation Limited

Managerial

2016 **Organizing Technology Convention.**
Organized the first inter-university technology convention (*Vivarta*) of our university

2014 **Organizing Art Convention.**
Organized the first art convention (*Spectrum*) of our university

Languages

Bengali Native proficiency
English Full professional proficiency
Hindi Limited working proficiency

Achievements and Awards

Certificate Controls Passport Certificate, Philips Lighting University, 2017
Certificate LED Passport Certificate, Philips Lighting University, 2017
Best Project National Science Day Exhibition 2016, Science Association of Bengal
Runner Up *Electronically Yours* (On-spot electronic design contest), *Edge X 2016* Technology Convention, Techno India College, Salt-Lake (TISL)
Runner Up *Contrive* (On-spot electronic design contest), *Avenir 2015* Technology Convention, Netaji Subhash Engineering College, Kolkata
Champion *Electronically Yours* (On-spot electronic design contest), *Edge 2015* Technology Convention, Techno India College, Salt-Lake (TISL)

Others

- Delivered seminars in regional engineering universities on open source hardware
- Acted as trainer for undergraduate students in regional engineering universities for open source hardware design, development and applications
- Took up multiple personal projects on embedded system design and development