Saptarshi Mitra

Curriculum Vitae

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Education

October 2018–Present	**Technical University of Munich**, *Master of Science*, *Communications Engineering*. Two-year high-level International Graduate Program of the Department of Electrical and Computer Engineering
2013–2017	**National Institute of Technology(NIT), Durgapur, India**, *Bachelor of Technology*, *Electronics & Communication Engineering. Final Grade: 1,5 (9.14/10)*.
2011–2013	**WBCHSE**, *Higher Secondary Examination*, *Final Grade: 1,4 (88.8%). Percentile : 99.97*.
2011	**WBBSE**, *10th Std. Examination*, *Final Grade: 1,5 (86.5%)*.

Work Experience

June 2017 – July 2018	**Software Engineer**, Verizon, Hyderabad, India. Worked as a Full Stack Developer with the Network & Technology group. Wrote Microservices and developed UI for Dispatch Applications like Autoloader and Jobloader. These applications were used to allocate jobs to technicians in a particular region.
May 2016 – July 2016	**Research Intern**, TCS Innovation Labs, Kolkata, India. Collaborated with AI-Robotics and Real-Time Embedded Systems Design Group, Innovation Lab, Kolkata. Worked on Localization of Mobile Robots.
June 2015 – July 2015	**Intern**, Bharat Electronics Limited , Hyderabad, India. Project on Electronic Warfare Systems with Emphasis on ESM at Hyderabad Facility.

Academic Projects

2016 – 2017	**The Investigation of Power Control Schemes for a Device-to-Device Communication integrated into OFDMA Cellular System**, NIT Durgapur, ○ Analysis of the performance of different power control schemes in a hybrid LTE system. ○ Simulation of CDF with Tx. power and SINR in Matlab considering Channel impairments(Shadowing,Fading).
Summer 2016	**A Method for Measuring, Comparing and Correcting Dead-Reckoning Systematic Errors in Mobile Robot**, TCS Innovation Labs, Kolkata, ○ Identified the Dead reckoning Systematic and Non-Systematic Errors of Mobile Robots and their sensors. Also 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.
2015 – 2016	**Safety System for Robotic Work Environment**, *The model was shortlisted for the final rounds at General Electric Edison Challenge 2016*, ○ 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.

2014 – 2015	**Password Protected Vehicle Locking System using GSM technology**, Electronics Corporation of India Limited, Kolkata,
	○ Remotely alert owner of the vehicle if incorrect password is attempted more than 3 times.

Scholastic Achievement

2018	**Deutschlandstipendium, German National Scholarship Program**, TUM.
2018	**The EMJMD Student Scholarship(Erasmus+)**, EMECS, (declined).
2013	**Scheme of Scholarship for College and University Student**, Government of India, Got an award on the basis of Higher Secondary Examination held by West Bengal Council of Higher Secondary Education.
2010	**INSPIRE award**, Department of Science Technology (DST), for academic excellence from 6th to 10th standard.
2009	**Best of Subject Category : Engineering, IRIS Science Fair 2009**, INTEL corporation ,CII and DST, proposed and designed a Disposable Syringe which can only be used once and thus it could stop spreading of diseases by reusing.

Skills & Abilities

Programming Languages	C, MATLAB, VHDL, Angular5, C++, Java Spring Boot, SQL, Arduino, Assembly Level Programming, Python (Basic), HTML, CSS
Software	LaTeX, Xilinx ISE, Logisim, ROS, Atmel Studio, Git, gdb, Multisim
OS	Linux, Windows

Languages

English	**Full Professional Proficiency**
German	**Currently pursuing level A1.2**
Bengali, Hindi	**Native language**

Extra Curricular Activities

2018	**Semester Representative and Member of Quality Circle**, MSCE, TUM.
2018	**Volunteer at TEDx Jadavpur University**, played an active role in inviting speakers and arranging the event.
2016 – 2017	**Chief Events Coordinator of Prakriti, the Environmental club of NIT Durgapur**, which was involved in activities like organizing plantation programs, observing earth hour, campus cleaning etc.
2016	**Google Online Marketing Challenge (GOMC) 2016**, Partnered with www.mayallyang.com on creating AdWords online marketing campaign for their expansion of Ecotourism . Ranked : Good.
2014 – 2018	**DuckDuckGo and Mozilla(l10n,e10s,webVR)**, Community member and Active Contributor.
2014	**Volunteer at Blood Donation Camps organized by State Blood Transfusion Council, West Bengal**.

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