

Amarjeet Saini
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<https://amarjeet-saini.github.io/>

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Examination	Board /University	Institute	Year	CPI
Graduation / BE ETC	Pune University	Army Institute of Technology	2020	8.8/10
Intermediate / +2	CBSE	K.V Minambakkam, Chennai	2016	92/100
Matriculation	CBSE	K.V Minambakkam, Chennai	2014	9.6/10

Internship

- **Summer Research Intern , IIT Guwahati** [May '19 - Jul '19]
 - **Design of hybrid sources based microgrid.**
Guide : Dr Gaurav Trivedi, Associate Professor, IIT Guwahati
Team Member : Tana Sera, NERIST, Nirjuli
Abstract: This project implemented the use of renewable energy sources such as Solar PV arrays, and BSS to supply power to the load when required; its dynamic behavior was analyzed by performing fault analysis.
Tool : PSCAD

Projects

Projects details and information <https://amarjeet-saini.github.io/>

- **RFID based Inventory Tracking System for Labs (IOT)**
 - **Abstract:** RFID tags were placed on every product (i.e., CPU, monitor, etc). Fixed RFID readers were placed on the doors of the labs. When a valid object passed through the doorway count was updated to Google Firebase, if it was an invalid object, an alarm was raised.
Tools: C, Raspberry pi, sensors, Google firebase
- **ChaTTY: multi-client chat room**
Abstract: A simple network application using socket. Multiple client can connect to a server and interact with other clients using terminal
Tools: Python, Socket, Multi-threading
- **OSH shell**
Abstract: Unix shell implementation supports all basic commands, output redirection to a file. Also, added some extra commands i.e history, exit, cd
Tools: C, Unix api
- **Hack assembler**
Abstract: Hack Assembler which converts Hack assembly language to machine code of 16 bit value. It handles comments, white-space character and both A-type and C-type instruction of Hack language
Tools : Python

Achievements

- **GATE CSE 2021** AIR 13862 out of 1,50,000
- **National Level Creative Aptitude Test (NCAT) - 2019** scored 95.9 percentile .
- **AGIF Scholarship** - 2016, 2017
- **Autocad Winner** at College Fest (2017)

Relevant Courses

- Nand2Tetris, Data Structures, Operating Systems, Computer Architecture, Computer Networks

Technical Proficiency

Programming Languages : C, C++, Python
Assembly Language : MIPS-32, 8051
Softwares/Tools : PSCAD, Latex, Multisim, MATLAB