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

- **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