



Saurabh Kumar Kar

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Branch: ETC

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OBJECTIVE

To acquire a position and contribute as a team member in a lively work environment ,focused on promoting business growth by providing better worth and service utilizing my communication, technical and organizational skills.

PROFESSIONAL SYNOPSIS

- Sincere and diligent individual with B.Tech in Electronics and Telecommunication Engineering from IIIT Bhubaneswar ; determined to carve a successful career in the industry .
- My interest in computer science area has kept me highly motivated to learn new and interesting skills like IOT and Android .
- In-depth knowledge of Analog and Digital electronics with some knowledge of communication .
- Sound understanding and skill in designing a embedded system using microcontroller , coding for microcontroller and other modules used for development purpose .
- Well versed in designing a security system implemented with RSA for encryption and decryption purpose .
- Comprehensive problem solving abilities , ability to deal with people diplomatically , willingness to learn , team player , hard worker with good communication skills and been a part of online mentoring activities .

EDUCATIONAL QUALIFICATIONS

Qualification	School/College	Board/ University	Year of Passing	Percentage/ CGPA
B.Tech	IIIT Bhubaneswar	IIIT Bhubaneswar	2020	8.06
Class XII	Prabhuji English Medium School , Sambalpur	CBSE	2015	81.4
Class X	SJ DAV Public School , Chaibasa	CBSE	2013	9.6

ORGANISATIONAL/WORK EXPERIENCE

- **Shiksha.com , Work from home**
Mentor
March 2018 - Present
- **Tech Society, IIIT Bhubaneswar**
Advaita 2018
Coordinator

INTERNSHIP / ACADEMIC PROJECTS

INTERNSHIP

- **LNMIIT, Jaipur**

IMPLEMENTATION OF RSA CRYPTOSYSTEM ON A MICROCONTROLLER FOR IOT APPLICATIONS | 6 Weeks

- The purpose of the project was to perform end-to-end encryption of text and images on Arduino .
- RF433 Mhz module was used for transmission of data .
- The SD card module was used for data storage .
- Original messages were encrypted in the form of cipher text , those cipher text were transmitted over radio channel.
- The received cipher text were then decrypted to get the original messages back .

ACADEMIC PROJECTS

• IIIT BHUBANESWAR

CELL PHONE DETECTOR AND JAMMER

- This project was divided into two parts : Detector and Jammer
- Detector was made with a purpose to detect incoming and outgoing mobile calls (2G and 3G) .
- Jammer was designed to transmit on the same radio frequencies as the *cell phone*, disrupting the communication between the phone and the *cell-phone* base station in the tower.

• IIIT BHUBANESWAR

PASSWORD BASED DOOR LOCKING SYSTEM

- A prototype was designed using registers and flip-flops ,which helps in locking a device with a password .
- The system used to lock if there were more than 3 unsuccessful attempts .

ACADEMIC ACHIEVEMENTS

- Won 3rd prize in the “Robotics and Embedded System “ workshop .
- Secured 1st position in the Student of the year contest in the year 2013 .
- NCC rank CDT , Grade ‘A’ Certificate 2013 .

COMPUTER PROFICIENCY

Programming

- C/C++
- Microcontroller Programming
- HTML / CSS
- Twitter Bootstrap

Hardware

- Arduino & Atmega 8 microcontroller
- RF 433 Module
- NRF Module (Basic implementation)

Other

- RSA Cryptography
- Android (learning)
- MATLAB (Basic Knowledge)

INTERESTS / EXTRACURRICULAR ACTIVITIES

INTERESTS

- Internet Of Things
- Raspberry Pi
- Cryptography
- Android

EXTRACURRICULAR ACTIVITIES

- Teaching , Photoshop , Mentoring in Shiksha