**SREEKAR GARGEYA**

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**Career Objective**

I am looking to lace my career in Electronics to improve my technical skills and effectively apply them which provides me job satisfaction and help the company to achieve goals.

**PROFILE SKILLS**

* A self-starter and quick learner with versatile skill set.
* Strong communication skills with excellent writing and speaking.
* Experience in creating AdWords.
* Proficient in C, C++, Python, Microsoft Word, Power Point, Excel.

**Technical Skills**

**Programming languages**: C, C++, JavaScript, Python, Pytorch, Tensorflow, R, DevOps

**Cloud Platforms**: Amazon web services(AWS)

**Tools**: Github, Jenkins, Maven, Nagios, Chef, Docker, Kubernets

**Mark-up languages**: HTML, CSS, XML

**Operating Systems**: Linux, Windows

**Software Applications**: Microsoft Office, Anaconda, R Studio, Cadence, LtSpice, Matlab, Github

**Electronics:** Optical Communications,Microprocessors, Embedded systems, Microwave, Control systems, Satellite Communication, Radar Communication.

**EDUCATION**

* Masters in Engineering (MENGG) 2018-April 2019

Electrical and Computer Engineering- University of Windsor, Windsor, ON

* Bachelor of Technology- Electronics and Communication Engineering 2013-2017

GITAM University, Hyderabad, India

**Academic Projects**

1:-**Title**: Sun Tracking Solar Panel

Software used: Programming language C, Proteus, Atmel Studio

Description: The aim of this project is that two light dependent resistors (LDR) that are fixed on the edges of the solar panel. When light is exposed on them, they exhibit low resistance and high resistance when not exposed. Software implementation is done using C language.

2:-**Title**: Software implementation of Advanced Encryption Standard(AES)

Software used: Programming language C

Description: A programming language C language is chosen and implemented AES (Round 0 to Round 10, with 128-bit key. AES program with the sample input and key is executed. A final output is done in c language and encryption is done.

3:-**Title:** For a given QPSK modulation, build a modulator and demodulator and transfer image file through noiseless channel**.**

Software used: MatLab

Description: Phase shift key is a digital modulation process which conveys data by changing the phase of a referencing signal. The modulation occurs by varying the sine and cosine inputs at a precise time. Quadric phase shift key is a form of signal in which two bits are modulated at once. QPSK allows the signal to carry twice as much as information as PSK using same bandwidth. QPSK is used for satellite transmission of video, cellular and other forms of digital communication over RF carrier.

4:-**Title**: For a Convolutional code, build an encoder and decoder (Viterby decoding), measure the performance in binary symmetric channel.

Software used: MatLab

Description: Convolutional codes are a bit like the block codes, they involve the transmission of parity bits that are computed from message bits. Unlike block codes in systematic form, however, the sender does not send the message bits followed by (or interspersed with) the parity bits; in a Convolutional code, the sender sends only the parity bits.

5:- **Title**: Adaptive equalization using LMS algorithm

Software used: MatLab

Description: Adaptive equalizer is important in transmission of wireless communication. The equalizer using least mean square (LMS) algorithm is adopted. Simulation results show that step size influences the algorithm convergence and stability, which will significantly affect the performance of adaptive equalizer. The requirement of step for convergence speed, time-varying tracking accuracy and convergence precision is contradictory. Therefore, a variable step LMS algorithm is presented.

**INTERNSHIP**

Research Centre Imarat(RCI) March 2014-May 2017

Internship at Electro Optical Instruments Research Academy, i.e, RESEARCH CENTRE IMARAT(RCI), in Defence Research and Development Organization(DRDO) laboratories at Hyderabad. Studied and hands on experience with optical cables by testing and coupling of various optical cables and are used in missiles and defence purposes. With the help of Artificial Intelligence, we used to test the cables, and do fit in missiles which can be used in armed forces.

**WORK EXPERIENCE**

ETOUCH at Google July 2017-December 2017

Worked as Data Analyst in Google for 6 months. My role is to create advertisements for various websites in google.

Domain: Curated Creatives

Tool used: EWOQ

**CAMPUS AND COMMUNITY INVOLVMENT**

* Organised a two day workshop on India’s biggest networking championship 2016- CISCO NETWORKING workshop on 28th and 29th January conducted by I-MEDITA learning solutions held at GITAM University.
* One of the core member of GITAM University’s technical fest Lavz-O-Philia, a lingual technical fest. Organised several events during the fest.
* Lab assistant for electronic devices and circuits laboratory. Helped faculty in assigning projects and assigning marks to students during lab sessions for 2016 batch engineering students.

**ADDITIONAL TECHNICAL TRAINING AND CERTIFICATIONS**

* Java script
* DevOps certification from Lynda
* Neural networks and Deep learning certification from Lynda
* Voice Recognition certificate from Lynda
* Machine Learning with Python and R
* C and C++ certifications from Lynda
* Software development security from Lynda.