

Sreenidhi Vedartham Narayanan

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SUMMARY

- Experience in Python, Microsoft database, making models, prototypes of products in three-dimension design software.
- Designing and conducting tests, recording, analyzing and interpreting test data.
- Design electronic components, software, products for scientific, industrial applications.
- Amateur mobile app developer.
- Able communicator, adept at working in both individual and team settings, and creating strong relationships with coworkers.
- Analytical thinker, proficient at identifying and resolving technical problems.

TECHNICAL SKILLS

Operating systems: Unix/Linux, Windows, DOS, Android, Ubuntu, Microsoft server 2003/2008, Windows 7/10, vista

Programming Languages: Java, Python, C, C++, MATLAB, MATHCAD, Latex (+BibTex), Labview, SPICE, Verilog, OpenCV.

Tools: Eclipse, Adobe Photoshop, Microsoft excel, publisher, Netgen, TinyCAD, Geda, Qualtrics.

EDUCATION

Alpha College of Engineering, India, May, 2013

Bachelor of Engineering Major: Electronics and Communication Engineering

The University of Texas at Tyler, Tyler, Texas, December, 2016

Master of Science Major: Electrical Engineering

PROFESSIONAL EXPERIENCE

Star dot star Pvt.Ltd, Tamil Nadu, India, 2013-2015

Software/Marketing Intern

- Helping the manager with the development design of a software that sends bulk messaging for advertisement purposes
- Was in charge of talking to clients and securing contracts to promote the said Bulk Messaging software.
- Interned for the project manager as a marketing executive and took care of the client database.
- Managed online clientele, technical support for the software and book keeping
- Indian Institute of Hardware Technology, Tamil Nadu, India, 2014.
- Professional communication and Technical trainer
- Helped train incoming students in professional conducting themselves.
- Taught English speaking, interview training and soft skills.
- Trained students in networking and server management.

Student Life and Leadership Office, The University of Texas at Tyler, Tyler, Texas, 2015-2016.

Graduate Assistant – Department of New students and Family programs

- Helped the freshman with transitioning from school to college.
- Started a freshman field day and put together ideas for starting an orientation camp
- Helped parents with their queries, both online and in person
- Assisted in training the Orientation leaders and Orientation student coordinators
- Assumed leadership roles for several small events within the department.
- Designed online feedback forms using qualtrics, developed posters using Photoshop, illustrator and publisher for events conductor within and outside of the department

Student Affairs, The University of Texas at Tyler, Tyler, Texas, 2016-2017.

Graduate Assistant – Department of Student Money Management

- Helped students with Budgeting and savings
- Assisted with all the Money Management events
- Trained the student Money mentors and prepared them to take Financial Literacy exam
- Designed posters, tips and tools for students to help them manage their finances

Office of Graduate Admissions, The University of Texas at Tyler, Tyler, Texas, 2016-2017.

International Ambassador- Office of Graduate Admissions

- Create videos to advertise for the Graduate Admissions
- Reach out to the students across the world to get them interested in Graduate Studies
- Provide customer service to International students having queries about the school
- Create outreach for the existing students to be involved

ACADEMIC PROJECTS:

“Analyzing RLC Circuit using MESH ANALYSIS in Python”, UT Tyler, 2015.

This project demonstrates the analysis of the given RLC circuit using the mesh analysis and the equations are obtained. These mesh equations are written and represented in the matrix form in terms of voltage and mesh currents and these are solved by using C++ programming using the LAPACK library. By using this results from the code, graphs are plotted using GNUPLOT for various angular frequencies. The graphs are plotted for magnitude and phase angles of both voltage and currents with respect to angular frequency.

“QR Decomposition and SVD of given matrix using Lapack subroutines”, UT Tyler, 2015.

A Time varying function is obtained using the LAPACK subroutines from the equations given. These equations are solved by using the QR decomposition and the SVD decomposition. C++ code will be executed that will give us plots for the decomposed equation.

“Differential Equations using ODE-PACK (FORTRON) on a RLC Circuits”, UT Tyler, 2015.

In this project, solved differential equations with the help of ODE-PACK. Solved the given differential equations with their initial conditions and plotted the respective outputs and the parallel RLC circuit.

“Digital Image Steganography for secure communication over the internet” – Anna University, 2013.

Steganography is the science that involves communicating secret data in an appropriate multimedia carrier, e.g., image, audio, and video files. It comes under the assumption that if the feature is visible, the point of attack is evident, thus the goal here is always to conceal the very existence of the embedded data. As a part of the Final project, we manipulated a document to be hidden in an image and coded it using MATLAB and C++ to show that steganography is secure in its communication form.

“Speaker change identification” – Alpha college of Engineering, 2012.

Presented a paper in a seminar on the topic of identification and problems of real time Speaker change.

MANAGEMENT AND LEADERSHIP PROJECTS:

ENACTUS- 2009-2013:

MUSHROOM CULTIVATION FOR UNEMPLOYED WOMEN, PAAKAM, INDIA.

As the president of the social entrepreneurial organization, helped the unemployed women start their own mushroom cultivation business with less investment but more returns. As a team, we taught them Book keeping, financial literacy, price negotiation and farming. This has been successfully running for 4 years through out under graduate and now the women team has disbanded to start their own spate businesses.

ORGANIC FARMING FOR THE UNEMPLOYED, THIRUVALLUR, INDIA:

The Enactus team also helped farmers in Thiruvallur District in Tamil Nadu start an alternate means of farming to help them get more profit. Organic farming was easy to teach, as the resources we needed were already there in the area. We made a compost pit out of bio degradable items and started using them as fertilizers. The output of this idea was healthier and better quality fruits and vegetables which had very less chemical fertilizers in them. The farmers were able to get a substantial profit with this venture.

FINANCIAL LITERACY FOR WOMEN, THIRUVALLUR, INDIA.

In addition to organic farming, we also taught the women in the district about Financial literacy,, topics include opening a bank account, depositing money through an atm, How to start a savings account, operating an atm, how to take a loan etc., By the end of the project, 20 women opened a bank account and are using ATM proficiently.

ENACTUS UT TYLER 2015-2016

HELPING SYRIAN REFUGEES WITH DONATION:

The Enactus UT Tyler partnered with the Muslim Student Association to collect funds, clothes, food items for the Syrian refugees. By the end of the Collection drive, made upto 4000\$ and packed several boxes of perishable and non-perishable items to send to those in need.

Awards with Student organization:

Voted “**President of the Year**” – 3 times in a row, 2011-2013- Enactus Alpha, India.

Won “**Best Manager**” Award- for two consecutive years, 2012-2013, India

Associations with Student organizations: (2015-2017)

Enactus- Student Advisory Committee, Enactus USA

Library Advisory Committee- University of Texas at Tyler, Texas, USA

Society for Women engineers- University of Texas at Tyler, Texas, USA

IEEE- - University of Texas at Tyler, Texas, USA

Women In search of equality- - University of Texas at Tyler, Texas, USA

GSSA- - University of Texas at Tyler, Texas, USA

ACM-- University of Texas at Tyler, Texas, USA