

Avijit Tripathi

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EDUCATION

University of Texas, Arlington, TX

August 2023

Master of Science in **Computer Science Engineering**

Samrat Ashok Technological Institute, India

October 2019

Master of Technology in **Electronics and Communication Engineering**

TECHNICAL SKILLS

Operating Systems and Services: Windows, Ubuntu, IOS, Linux

Programming Languages: Python, C++, Java, SQL, VHDL, MATLAB, LabVIEW, COMSOL Multiphysics, PHP, CSS, Javascript

Certifications: Robotics (2010), Embedded Systems(2010), Role of Optimization in Engineering Application(2017), MATLAB & its Applications in Computational Intelligence(2018), Virtual Instrumentation(2018)

EXPERIENCE

Assistant Professor, **Truba College of Science & Technology (India)**

January 2020 – October 2020

- Tutored CMOS Design and Digital Signal Processing courses, to the undergrad class, using the virtual curriculum (due to COVID 2019), and conducting live 1:1 coaching to assist the students

Teachers Assistant, **Samrat Ashok Technological Institute**

March 2017 – January 2018

- Designed a new course curriculum for the course 'Communication network and transmission lines', its associated lab, graded and conducted office hours to aid students (logging in 33 hrs.)

Assistant Professor, **Truba College of Science & Technology (India)**

January 2013- December 2015

- Directed multiple courses like Digital Circuits, Analog Communication, EMT, Signals and Systems, Electronics Devices and Circuits, and MATLAB (logging in around 1200 hrs.), along with additional responsibilities such as Grading, Labs, etc., while leading the curricular and co-curricular activities for the overall development of students

TECHNICAL PROJECTS

Socket Programming

Designed a dual server configuration by implementing connection-oriented TCP, Multithreading, Mutual exclusion, Simultaneous socket connections and replication transparency in python, to provide dynamic data to the client along with location transparency, concurrent operations, directory synchronization

Art Gallery Database System

- Designed EER diagram and schema for an art gallery, its implementation in MYSQL along with a web interface to manipulate the database using PHP, HTML, CSS

Published Paper: <http://doi.org/10.1729/Journal.21876> August 2019

- Analysis and compression of ECG signal using DDC methods along with feature extraction: Published in INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS June 2019 Vol 6 Issue 2.

RC Control Airplane

- Designed a Gliding airplane and included the functionality to remotely control the plane, using DTMF (Dual Tone Multi-Frequency).

LEADERSHIP EXPERIENCE

Member, **The big event Committee**

Fall 2022

Volunteered six hours for social and community welfare causes such as organizing blood drive.

Lecturer, **Shri Gururji Institute of Information Technology (Dhar)**

January 2016 – April 2016

Volunteered to introduce underprivileged children to computer science and gave them option to peruse a carrier in the trade