ABHISHEK PHADKE
Curriculum Vitae

Texas A&M University Corpus Christi   **Email:** aphadke@islander.tamucc.edu
6300 Ocean Drive, USL   **Phone:** (361) 355-6608
Corpus Christi, TX 78412   **Web:** https://sites.google.com/view/abhishek-phadke

EDUCATION

Ph.D. Texas A&M University, Corpus Christi
Geospatial Computer Science, *2019 to present*
Resiliency in grids, UAV, Cybersecurity, Blockchain.

Coursework: Advanced Geospatial Computing, Optimization techniques, Spatial data structures, Game Theory, Network security, Database management systems.

M.S. Texas A&M University, Kingsville
Electrical engineering, *2017 to 2019*
Renewable energy generation and transmission, Blockchain development, Multi-agent SoS

Coursework: Power transmission, VLSI, Advanced Electrical Machines, Medical Imaging Principals, Electric Power distribution, Embedded System Design, Rapid Prototype & ASIC design, Digital Image processing, Speech processing

B.E. Mumbai University, 2017
Major in Electronics Engineering, Minor in Computer science.

ACADEMIC AND RESEARCH POSITIONS

Research Assistant   Texas A&M University-Corpus Christi *(August 2020 - present)*
Department of Computing Sciences

Adjunct Faculty   Texas A&M University-Corpus Christi *(January 2020–August 2020)*
Department of Computing Sciences

Research Assistant   Texas A&M University-Corpus Christi *(August 2019- December 2019)*
Department of Computing Sciences

Instructor   Texas A&M University-Kingsville *(May 2019- August 2019)*

Teaching Assistant   Texas A&M University-Kingsville *(August 2018-December 2018)*
Department of Electrical and computer engineering

TEACHING

Courses of Instruction

EEEN-3345-001- Electronic devices & Circuits, Spring 2020, Texas A&M University, Corpus Christi

PROFESSIONAL WORK POSITIONS

Jr Engineer Amber Instruments, Mumbai, India. *(June 2016 to July 2017)*
R&D department

Jr Engineer Om Energy Savers, Mumbai, India. *(June 2015 to May 2016)*
Quality control

AWARDS AND GRANTS

- CBI endowment- Texas A&M University, Corpus Christi
  Fall 2021, **$750**

- Geo-Spatial Engineering GR Scholarship- Texas A&M University, Corpus Christi
  August 2021 to May 2022, **$300**

- International Impact scholar - Texas A&M university, Corpus Christi
  August 2021 to May 2022, $**1,899**

- Division of Research and Innovation, Texas A&M University, Corpus Christi, Student research
  Competition award, September 2021, **$775**

- 3M thesis competition, University level, Texas A&M University, Corpus Christi-People's Choice
  award, April 2021, **$500**

- Spring DT credit-Texas A&M University, Corpus Christi, Spring 2021**, $200**

- Geo-Spatial Engineering GR Scholarship- Texas A&M University, Corpus Christi
  Spring 2021, **$500**

- CBI endowment- Texas A&M University, Corpus Christi
  Spring 2021, **$1250**

- International Impact scholar - Texas A&M university, Corpus Christi
  August 2020 to May 2021, $**1,899**

- Graduate Student Merit Scholarship - Texas A&M University, Kingsville
  August 2017 to July 2018, $**10,000**

PUBLICATIONS

A. Phadke and S. Ustymenko, "Updating the Taxonomy of Intrusion Detection Systems," 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC), 2021, pp. 1085-1091, doi: 10.1109/COMPSAC51774.2021.00148.

Phadke, A., & Medrano, F. A. (2021). A Resilient Multi-UAV System of Systems (SoS). Academia Letters. https://doi.org/10.20935/AL1659

RESEARCH INTERESTS

- **Resiliency:** System resiliency.
- **Path planning algorithms:** Development of efficient path planning algorithms for UAV
- **Multi-agent systems:** Behavior analysis of multi-agent flocks and patterns in formation using AI
- **Renewable energy:** Energy generation using renewable energy sources, efficient transmission.

SKILLS

- Languages: Python, Java, C++, Swift 4
- Development tools: MATLAB, Adobe creative studio, Snapchat lens studio, XCode, Autodesk, Android studio, Eclipse, Visual Studio, Octave
- Spatial tools: ArcGIS, Global Mapper, ArcMap
- Cloud platforms: Microsoft Azure, AWS.
- Business intelligence: Tableau, Qlik sense
- Operating system familiarity: Windows 10, Mac OSx, Ubuntu
- PCB design: Proteus
- Spatial Skills: Analyze Geospatial data, Spatial database design, Geospatial computing, Spatial networks, UAV path planning, on-field data collection.
- Other skills: Hardware management and design tools, enterprise system management and security, IT support, project management. Renewable energy and green building entrepreneurship, Blockchain development, MS Office suite, Database management

CERTIFICATIONS

Certifications in Electric utility fundamentals, Renewable energy, Digital manufacturing, Enterprise system management, Advanced manufacturing process analysis, IoT, and embedded systems.

Complete list:
https://drive.google.com/file/d/1ubKBJ1nciRj28IDvghWsHIRgm-ShHLZI/view