

ABHISHEK PHADKE

Curriculum Vitae

Texas A&M University Corpus Christi
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EDUCATION

Ph.D. Texas A&M University, Corpus Christi

Geospatial Computer Science, *2019 to present*
Resiliency in grids, Machine Learning, UAV

Coursework: Advanced Geospatial Computing, Spatial data structures, Game Theory, Network security, Computer Graphics

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 (<i>August 2020 - present</i>) Department of Computing Sciences
Adjunct Faculty	Texas A&M University–Corpus Christi (<i>January 2020–August 2020</i>) Department of Computing Sciences
Research Assistant	Texas A&M University–Corpus Christi (<i>August 2019- December 2019</i>) Department of Computing Sciences
Instructor	Texas A&M University-Kingsville (<i>May 2019- August 2019</i>)
Teaching Assistant	Texas A&M University-Kingsville (<i>August 2018-December 2018</i>) 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

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>

AWARDS

- 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\$**

RESEARCH INTERESTS

- **Resiliency:** Incorporating resiliency in networked grids using ML- reinforcement learning
- **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.

PUBLICATIONS (In development)

1. A UAV path planning algorithm to circumvent disturbances.
2. A comprehensive review on Intrusion detection systems in networks
3. A review on resilient UAV SoS

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

ACADEMIC REFERENCES

Antonio Medrano, Ph.D.

Assistant Professor of Geographical Information Science at Texas A&M university Corpus Christi

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Website: <http://antoniomedrano.github.io>

Tianxing Chu, Ph.D.

Assistant Professor of Geographical Information Science at Texas A&M university, Corpus Christi

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Dr. Stan Ustymenko

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