

Brannndon Jones

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Education

University of Tennessee – Knoxville, TN (2013 - 2018)

Bachelor of Science in Biomedical Engineering, Reliability and Maintainability Minor
Cumulative GPA: 3.41 / 4.00

Tennessee State University – Nashville, TN (2018 - 2020)

Master of Engineering in Mechanical Engineering
Current Cumulative GPA: 4.00 / 4.00

Tennessee State University – Nashville, TN (2020-Present)

PhD in Engineering Systems

Special Skills

- Expert in Microsoft Office
- Experience with MATLAB, SolidWorks, ANSYS

Experience

Graduate Research Assistant – Tennessee State University (Nashville, TN)

August 2018 - Present

- Modeling and simulation of ground and maritime virtual environments for generation of synthetic remote sensing images.
- Development of a software interface for simulation of Radar, IR, and Lidar in virtual Environments.
- Development of image processing techniques for post processing of training images.
- Developing and utilizing custom and available deep learning frameworks for object detection and classification.
- Lead and co-author on paper publications to SPIE and DDDAS conferences.

Clinical Immersion – University of Tennessee Medical Center (Knoxville, TN)

May 2017 – August 2017

- Shadowed medical professionals at UT Medical Center and collaborated new medical devices that are currently needed.
- Lead senior design team in researching and developing an affordable, durable, multi-size breast biopsy training phantom.

Publications

- Jones, B., Ahmadibeni, A., and Shirkhodaie, A. "Marine Vehicles Simulated SAR Imagery Datasets Generation," SPIE DCS, paper 11420-24, April (2020).
- Jones, B., Ahmadibeni, A., Beard, M., and Shirkhodaie, A., "Physics-based SAR Modeling and Simulation for Large-scale Data Generation of Multi-Platform Vehicles for Deep Learning-based ATR," 2020.
- Ahmadibeni, A., Borooshak L., Jones, B., and Shirkhodaie, A., "Automatic Target Recognition of Aerial Vehicles Based on Synthetic SAR Imagery Using Hybrid Stacked Denoising Autoencoders," SPIE DCS, Algorithms for Synthetic Aperture Radar Imagery XXVII, paper 11393-25, April (2020).
- Ahmadibeni, A., Jones, B., Smith, D., and Shirkhodaie, A., "Dynamic Transfer Learning From Physics-Based Simulated SAR Imagery for Automatic Target Recognition," 2020.