Brevin Tilmon

Email
Personal Website
Github

I am a PhD student skilled in computational photography, computer vision, and machine learning.

Education

Ph.D. Electrical Engineering 2019-Present
University of Florida
Advisor: Dr. Sanjeev Koppal

B.S. Engineering Physics 2015-2019
Murray State University, 3.8/4.0

Publications

Available at Personal Website

1. Brevin Tilmon, Eakta Jain, Silvia Ferrari, Sanjeev Koppal. "FoveaCam: A MEMS Mirror-Enabled Foveating Camera". **International Conference on Computational Photography 2020**.
2. Francesco Pittaluga, Zaid Tasneem, Justin Folden, Brevin Tilmon, Ayan Chakrabarti, Sanjeev Koppal."A MEMS-Based Foveating LIDAR to Enable Real-Time Adaptive Depth Sensing". **arxiv 2020**.
3. Kristofer Henderson, Xiaomeng Liu, Justin Folden, Brevin Tilmon, Suren Jayasuriya, Sanjeev Koppal. "Design and Calibration of a Fast Flying-Dot Projector for Dynamic Light Transport Acquisition". **Transactions on Computational Imaging 2020**.
4. Gheorge Bunget, Brevin Tilmon, Andrew Yee, Dylan Stewart, James Rogers, et al. "Novel Approach of Wavelet Analysis for Nonlinear Ultrasonic Measurements and Fatigue Assessment of Jet Engine Components". **American Institute of Physics 2018**.

Experience

Graduate Research Assistant 2019-Present
Florida Optics and Computational Sensor Lab, University of Florida
Develop adaptive computational cameras leveraging computational photography, computer vision, machine learning and optics.

Undergraduate Research Assistant 2016-2019
NDE Lab, Murray State University and FOCUS Lab, University of Florida

Electrical Engineering Intern 2017
Berry Global Inc.

IEEE Robotics Club President 2017-2019
Murray State University

Awards

NSF GRFP Honorable Mention 2020
Graduate School Preeminence Award, University of Florida 2019-2024
Kirkland Fellowship, University of Florida 2019-2021
Jesse & Deborah Jones Scholarship, Murray State University 2015-2019
Housing Scholarship, Murray State University 2015-2018

Skills

Programming: C/C++, Python, MATLAB
Sensors and Robotics: Machine vision cameras, depth sensors, MEMS Devices, Micro-controllers