Brevin Tilmon

Email
Website
Github

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

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 `https://btilmon.github.io/`

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 computational cameras for adaptive sensing. Collect custom datasets and train neural networks for computer vision applications. Co-design hardware and software for real-time imaging capabilities using synchronization circuitry between sensors.

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