

Brevin Tilmon

Mail: btilmon@ufl.edu
Website: <https://btilmon.github.io/>
Github: <https://github.com/btilmon>

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

Education

Ph.D. Electrical Engineering University of Florida Advisor: Dr. Sanjeev Koppal	2019-Present
B.S. Engineering Physics Murray State University, 3.8/4.0	2015-2019

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 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.	2019-Present
Undergraduate Research Assistant NDE Lab, Murray State University and FOCUS Lab, University of Florida	2016-2019
Electrical Engineering Intern Berry Global Inc.	2017
IEEE Robotics Club President Murray State University	2017-2019

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