Brevin Tilmon

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RESEARCH STATEMENT

I am interested in computational photography, computer vision and machine learning. My research involves developing hardware/software prototypes that combine deep learning and camera hardware.

EDUCATION

PhD, Electrical Engineering, University of Florida — Present
BSE, Engineering Physics, Murray State University — 2019

EXPERIENCE

University of Florida, Graduate Research Assistant — Present
Computer vision research in the FOCUS Lab under the direction of Prof. Sanjeev Koppal.

University of Florida, Undergraduate Research Intern — 2018
Computer vision research in the FOCUS Lab during the SURF program.

PUBLICATIONS

1. Brevin Tilmon, Eakta Jain, Silvia Ferrari, Sanjeev Koppal. FoveaCam: A MEMS Mirror-Enabled Foveating Camera. **International Conference on Computational Photography (ICCP 2020)**.
2. Francesco Pittaluga, Zaid Tasneem, Justin Folden, Brevin Tilmon, Ayan Chakrabarti, Sanjeev Koppal. Towards a MEMS-based Adaptive LIDAR. **International Conference on 3D Vision (3DV 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. **IEEE Transactions on Computational Imaging (TCI 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**.

AWARDS

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

SKILLS

Programming: C/C++, Python, MATLAB
Sensors and Robotics: Machine vision and depth cameras, Embedded Systems, Optics Bench