

Brevin Tilmon

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Research Interests

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

Work 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. **FoveaCam: A MEMS Mirror-Enabled Foveating Camera**
B. Tilmon, E. Jain, S. Ferrari, S. J. Koppal.
International Conference on Computational Photography (ICCP 2020)
2. **Towards a MEMS-based Adaptive LIDAR**
F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti, S. J. Koppal.
International Conference on 3D Vision (3DV 2020)
3. **Design and Calibration of a Fast Flying-Dot Projector for Dynamic Light Transport Acquisition**
K. Henderson, X. Liu, J. Folden, B. Tilmon, S. Jayasuriya, S.J. Koppal.
IEEE Transactions on Computational Imaging (TCI 2020)
4. **Novel Approach of Wavelet Analysis for Nonlinear Ultrasonic Measurements and Fatigue Assessment of Jet Engine Components**
G. Bunget, B. Tilmon, A. Yee, D. Stewart, J. Rogers, et al.
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