

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

Facebook , Facebook Reality Labs, Redmond, WA Research Intern Computer vision algorithms and hardware for AR/VR.	Fall 2021
University of Florida , FOCUS Lab, Gainesville, FL Graduate Research Assistant to Dr. Sanjeev J. Koppal Develop novel sensors and machine learning algorithms.	Present

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