

Brevin Tilmon

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Education

PhD, University of Florida, Electrical and Computer Engineering	2019 - Present
BS, Murray State University, Engineering Physics	2015 - 2019

Experience

Facebook , Facebook Reality Labs, Research Intern Working on 3D computer vision with Michael Hall.	2021
NASA , Intelligent Robotics Group, Research Intern Worked on inverse rendering and simulating lunar materials with Uland Wong.	2021
University of Florida , FOCUS Lab, Graduate Research Assistant Researching computer vision and machine learning advised by Sanjeev Koppal.	2019 - Present

Publications

1. **SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing**
B. Tilmon and S. J. Koppal
ICCV 2021
2. **Fast Foveating Cameras for Dense Adaptive Resolution**
B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal
TPAMI 2021
3. **FoveaCam: A MEMS Mirror-Enabled Foveating Camera**
B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal.
ICCP 2020
4. **Towards a MEMS-based Adaptive LIDAR**
F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti and S. J. Koppal.
3DV 2020
5. **Design and Calibration of a Fast Flying-Dot Projector for Dynamic Light Transport Acquisition**
K. Henderson, X. Liu, J. Folden, B. Tilmon, S. Jayasuriya and S.J. Koppal.
Transactions on Computational Imaging 2020
6. **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

Patents

1. **Fast Foveation Camera and Controlling Algorithms**
S. Koppal, Z. Tasneem, D. Wang, H. Xie, B. Tilmon

Awards

NSF GRFP Honorable Mention	2020
Graduate School Preeminence Award, University of Florida	2019
Kirkland Fellowship, University of Florida	2019

Skills

Software: Python, C++, PyTorch, CUDA, NVIDIA OptiX, Mitsuba
Hardware: Depth/RGB Cameras, Embedded Systems, Optics Bench