

Brevin Tilmon

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Education

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

Experience

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| Facebook , Facebook Reality Labs Research Intern | 2021 |
| NASA , Intelligent Robotics Group Research Intern | 2021 |
| University of Florida , FOCUS Lab Graduate Research Assistant, Advisor: 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

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| 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