

# Brevin Tilmon

[Personal Website](#) / [GitHub](#) / [Google Scholar](#) / [Email](#) / (Cell) 812-568-3344

## Education

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<b>University of Florida</b> Ph.D. Electrical and Computer Engineering	5/2019 - 12/2023
<b>Murray State University</b> B.S. Electrical Engineering, 3.8/4.0	8/2015 - 5/2019

## Experience

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<b>Snap Inc.</b> Research Intern, <a href="#">Computational Imaging Team</a> Developed state of the art computational imaging system under review for publication and patent.	5/2022 - 11/2022
<b>Meta</b> Research Intern, <a href="#">Reality Labs</a> Developed efficient machine learning depth sensing algorithm for Meta AR/VR devices.	8/2021 - 12/2021
<b>NASA Ames Research Center</b> Research Intern, <a href="#">Intelligent Robotics Group</a> Developed a simulator in CUDA of a computational microscope for reflectance estimation.	5/2021 - 8/2021
<b>University of Florida</b> Graduate Research Assistant, <a href="#">Florida Optics and Computational Sensor Lab</a> Developing novel computer vision algorithms and imaging systems for efficient computer vision.	5/2019 - Present

## Publications

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(Additional publications and patents available at [Google Scholar](#))

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

## Open Source Software

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**illumiGrad** [\[GitHub\]](#)  
PyTorch abstracted local bundle adjustment for RGBD cameras.