

Brevin Tilmon

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Education

University of Florida

Ph.D. Electrical and Computer Engineering
Advised by Dr. Sanjeev Koppal

2019 - 2023 (expected)

Murray State University

B.S. Engineering Physics

2015 - 2019

Experience

Meta

Research Intern, Reality Labs

Developed depth estimation algorithms for augmented and virtual reality devices.

2021

National Aeronautics and Space Administration (NASA)

Research Intern, Intelligent Robotics Group

Developed a simulator and 3D reconstruction algorithms for a computational imaging device.

2021

University of Florida

Graduate Research Assistant, FOCUS Lab

Developed computational imaging devices, computer vision and machine learning algorithms.

2019 - Present

Publications

SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing

B. Tilmon and S. J. Koppal

International Conference on Computer Vision (ICCV), 2021

Fast Foveating Cameras for Dense Adaptive Resolution

B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal

Transactions on Pattern Analysis and Machine Intelligence (PAMI), 2021

FoveaCam: A MEMS Mirror-Enabled Foveating Camera

B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal.

International Conference on Computational Photography (ICCP), 2020

Towards a MEMS-based Adaptive LIDAR

F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti and S. J. Koppal.

International Conference on 3D Vision (3DV), 2020

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

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

Fast Foveation Camera and Controlling Algorithms

S. J. Koppal, Z. Tasneem, D. Wang, H. Xie, B. Tilmon

US16844597, 2020