

# Brevin Tilmon

<b>Skills</b>	Computer Vision, Computational Imaging, Machine Learning, Software Engineering (C++, CUDA, Python, PyTorch), Research, Embedded Systems	
<b>Personal</b>	Personal Website, Github, Google Scholar Email: brevinjt@gmail.com Phone: 812-568-3344	
<b>Education</b>	University of Florida Ph.D. Electrical and Computer Engineering  Murray State University B.S. Electrical Engineering	05/19-12/23(Expected)   08/15-05/19
<b>Experience</b>	<b>Snap Inc.</b> Research Intern, Computational Imaging Group Managers: Jian Wang, Sizhuo Ma, Guru Krishnan Developed state-of-the-art energy-efficient active stereo 3D sensor for computer vision, published results in CVPR 2023, and submitted patent. Designed hardware (optics, electronics, 3D printing) and software (CUDA, OpenGL, C++) components for self-contained and mobile hardware prototype. [Project Website]  <b>Meta</b> Research Intern, Reality Labs Managers: Shuochen Su, Michael Hall Developed machine learning model in PyTorch for better selective depth sensing than classic stereo on Meta’s AR/VR devices. Leveraged Meta’s production machine learning infrastructure (distributed training, model quantization, large synthetic and real datasets). Submitted patent.  <b>NASA</b> Research Intern, Intelligent Robotics Group Managers: Uland Wong, Michael Dille Improved generalization capabilities of a computational imaging microscope in development for ultra-high resolution 3D reconstruction and reflectance capture in space. Developed CUDA simulator with various BRDF models. [Dataset Link]  <b>University of Florida</b> Graduate Research Assistant, Florida Optics and Computational Sensor Lab Advisor: Sanjeev Koppal Developed efficient computer vision algorithms and adaptive computational imaging systems. Designed hardware (optics, electronics, 3D printing) and software (C++, CUDA, Python, PyTorch) components for multiple compact real-time computational imaging hardware prototypes. [Personal Website]	05/22-12/22   