# Selim Emir Can

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## EDUCATION

**Stanford University** **Stanford, CA**
*Electrical Engineering (Master of Science)* *Expected June 2027*
Focus: Computer Vision and Generative Artificial Intelligence, GPA: 4.00

**University of California, Los Angeles** **Los Angeles, CA**
*Electrical Engineering (Bachelor of Science)* *June 2024*
Awards: Cum Laude, Samueli Scholar, UCLA Harley L. Wood Family Scholarship, Dean's Honor List, GPA: 3.92

## EXPERIENCE

**Apple Camera ML Team,** *AI/ML Research Intern* **Cupertino, CA**
*June - September 2026*

- Designed a novel lightweight disparity estimation framework for autofocus in extremely low-light video, exploiting spatiotemporal dynamics to maintain accuracy under significantly darker conditions.

**Stanford Computational Imaging Lab,** *Graduate Research Assistant* **Stanford, CA**
*Advisor: Professor Gordon Wetzstein* *July 2025 - Present*

- Developed an end-to-end vision-language pipeline for inferring 3D geometry and physics simulation parameters from a single image, enabling real-to-sim transfer for physically accurate 4D content generation.

**Ozcan Research Lab @ UCLA,** *Computer Vision Researcher* **Los Angeles, CA**
*Advisor: Professor Aydogan Ozcan* *August 2024 - February 2025*

- Created ClariDi, a framework that uses a multimodal image registration pipeline and diffusion models for virtual staining of thick tissue from unlabeled tissue images, bypassing expensive and tedious histological staining.

**Visual Machines Group @ UCLA,** *Undergraduate Research Assistant* **Los Angeles, CA**
*Advisor: Professor Achuta Kadambi* *October 2022 - March 2025*

- Created a video depth estimation framework utilizing large-scale monocular depth estimation networks and uncertainty quantification, applicable to autonomous vehicle and robotic camera systems.
- Developed signal processing algorithms for real-time non-contact sleep apnea detection via radar sensing and thermal imaging.
- Designed a compositional image generation framework for diffusion models, adaptively weighting cross-attention layers to enhance spatial relationships and object-specific attributes.

## PUBLICATIONS

***Image2Garment: Simulation-ready Garment Generation from a Single Image***
First Author, Under Review [Paper|Project Website]

***Claridi: Virtual Tissue Clearing and Staining via Latent Diffusion Models***
*First Author,* Manuscript in Preparation [Preliminary Paper]

***SteadyDepth: Fast Stable Uncertainty-driven Monocular Video Depth Estimation***
Second Author, [Paper|Supplement]

***Thermal Imaging and Radar for Remote Sleep Monitoring of Breathing and Apnea***
Co-Author, [Paper|Code]

## SKILLS & INTERESTS

Python, PyTorch, TensorFlow, scikit-learn, Deep Learning Frameworks, Computer Vision, CUDA, Diffusion Models, 3D Content Creation, Blender, Vision-Language Models, Image Signal Processing, Digital Signal Processing, Computational Imaging, C/C++, MATLAB, Linux/Unix, Git