Jeremy Klotz

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EDUCATION

Columbia University — New York, NY
Ph.D. in Computer Science — Tentative: 2027
Advisor: Shree Nayar

Carnegie Mellon University — Pittsburgh, PA
B.S., M.S. in Electrical and Computer Engineering — May 2022
GPA: 4.00 / 4.00

PUBLICATIONS

Jeremy Klotz and Shree K. Nayar, "Minimalist Vision with Freeform Pixels," ECCV 2024 **(Best Paper Award)**.

Shree K. Nayar, **Jeremy Klotz**, Nikhil Nanda, and Mikhail Fridberg, "Cricket: A Self-Powered Chirping Pixel," ACM Transactions on Graphics (SIGGRAPH), 2024.

Jeremy Klotz, Mohit Gupta, and Aswin C. Sankaranarayanan, "Computational 3D Imaging with Position Sensors," ICCV 2023 **(Oral Presentation)**.

Jeremy Klotz, Vijay Rengarajan, and Aswin C. Sankaranarayanan, "Fine-Grain Prediction of Strawberry Freshness using Subsurface Scattering," ICCV Workshop on Large-Scale Fine-Grained Food AnalysIs (LargeFineFoodAI), 2021.

EXPERIENCE

Metron — Summer 2021
Research Intern

· Designed stochastic algorithms to synthesize synthetic aperture sonar images for buried object detection.

***PokerCam*: ECE Capstone Project** — Spring 2021

· Collaborated with two other students to design, implement, and test a portable card shoe that images and classifies playing cards as they are dealt.

LEADERSHIP

Carnegie Mellon University Emergency Medical Service (CMU EMS) — 2018 - 2022
Captain, Supervisor — 2021 - 2022

· Represented CMU EMS with external stakeholders, including the Carnegie Mellon Police Department, City of Pittsburgh EMS, and university decision-makers to facilitate effective partnerships and maintain the agency's response to the COVID-19 pandemic.
· Oversaw agency medical operations in cooperation with the medical director to ensure consistent medical care and lead quality assurance.
· Managed all aspects of a five-person crew during 24-hour shifts, including medical care, training, and debriefing.
· Volunteered over 3000 hours on-duty responding to medical emergencies.

AWARDS

Best Paper Award	ECCV 2024
NDSEG Fellow	2023
University Honors, *Carnegie Mellon University*	2021
Eagle Scout	2017

TEACHING

Teaching Assistant, *First Principles in Computer Vision*	Fall 2022, Fall 2023, Fall 2024
Teaching Assistant, *Computational Imaging*	Spring 2024

CERTIFICATIONS

Extra-class FCC Amateur Radio License
Emergency Medical Technician (NREMT, PA EMT)