GRAHAM FELTON

Creative/Visual

Fabrication

MSCD, BS Arch Machine Learning, Computation	al Design Architecture	gtf@andrew.cmu.ed +1 (925) 451-671
	al Design, Alchitecture	
ML & Architecture	I am a student, researcher, and computational designer at Carnegie Mellon University. My worl methods for augmenting 3D understanding. I am particularly interested in methods for generatin models and their applications for design practices.	g 3D data using deep learnin
EDUCATION		
Carnegie Mellon University	Master of Science in Computational Design • Awards • Academic Merit Scholarship	August 2024 - May 202 2 year
University of Utah	Bachelor of Science in Architecture • Awards • Academic Doop's List (Multiple Years)	August 2018 - May 202 5 year
PROFESSIONAL EXPERIENCE	Academic Dean's List (Multiple Years)	
Payette	Computational Design Internship	May 2025 - August 202
Boston, USA	 Created a style transfer LoRA model by fine-tuning Stable Diffusion on a custom dataset of sketches from an in-house architect. Prototyped a 3D reconstruction pipeline using Python, COLMAP, and Postshot for building large-scale Gaussian Splat Scene Representations based on panorama data scraped from Apple Lookaround. Assisted in creating visualizations for new Johns Hopkins Life Sciences Building. 	3 month
Carnegie Mellon University Pittsburgh, USA	 Graduate Research Assistant Responsible for documentation and visualization of bioclimatic research on architectural ceramics using Rhino 3D and Grasshopper. Position reported directly to Carnegie Mellon University's School of Architecture Program Head, Omar Khan. 	August 2024 - December 202 4 month
Think, AEC	Junior Architect	June 2023 - July 202
Salt Lake City, USA	 Designed and assisted in the creation of a Revit-based design pipeline for conceptualizing a 500+ unit hotel layout. Created Dynamo scripts to assist drafting teams by automating repetitive tasks using Python, Revit, and Dynamo. 	1 yea
RYZIN	3D Artist	May 2021 - August 202
Remote	• Digitally modeled and textured props for <i>Call of Duty: Modern Warfare (2019)</i> using 3DS Max, Adobe Substance Painter and ZBrush.	3 month
RELEVANT COURSEWORK		
15-112 Carnegie Mellon University	Fundamentals of Programming	Fall 202
10-606 Carnegie Mellon University	Mathematical Foundations for Machine Learning	Fall 202
10-607 Carnegie Mellon University	Computational Foundations for Machine Learning	Fall 202
11-685 Carnegie Mellon University	Introduction to Deep Learning	Spring 202
17-637 Carnegie Mellon University	Web Application Development	Spring 202
10-623 Carnegie Mellon University	Generative Al	Fall 2025 (Curren
16-823 Carnegie Mellon University	Learning for 3D Vision	Fall 2025 (Curren
TECHNICAL SKILLS		
Coding Languages	Python, JavaScript, HTML, C++, C#	
Libraries & Frameworks	NumPy, OpenCV, Mediapipe, Pandas, PyTorch,	
3D/Parametric Modeling	Rhino 3D, Grasshopper, 3DS Max, nTop, ZBrush, Cinema 4D	
BIM/CAD	Revit, Auto CAD, Dynamo, Revit API (Python)	
Project Management	ProCore, Bluebeam Revu, BIM 360, Office 365	

Adobe Photoshop, Illustrator, InDesign, Substance Painter

Laser cutting, CNC, 3D Printing