Gray Crawford

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713 410 4058

Interaction designer + prototyper
+ engineer focused on spatial
interfaces and embodied tools

TOOLS

Unity · C#	Origami Studio
Dreams	Adobe Ae Ai Ps
Blender	HTML CSS
ARKit	Sketch
audio design	sketching
Ableton	CLIP promptism
Max · MSP · Jitter	shaders

WORK

XOROMANCY · gestural GAN explorer shown at **IEEE-GEM 2019**

Electric Acoustic: Exploring Energy as a Design Material through Sonic and Vibration Displays · presented at **SIGCHI 2019**

AWARD

Master's Thesis awarded
Kynamatrix's 2019 Grant Award
Innovation through Collaboration

EXPERIENCE

Ultraleap · Interaction Design Engineer
November 2019 - present

Working within *Tracking and Interaction R+D* org [*Leap Motion*]

Currently prototyping multisensory XR interactions and developing internal tools for evaluating body tracking ML models

Prototypes include embodied locomotion, physics interactions, microgestures, bodily representations, ultrasonic haptic sensations, ambisonics, menuing, wearable UI, networked environments

Developed + published XR hand interaction design guidelines

NASA Jet Propulsion Lab · AR Design Intern
Summer 2018

Designed and prototyped bimanual hand-anchored UI and spatial interaction methods for JPL's *ProtoSpace* AR CAD viewer/editor

Integrated Leap Motion hand tracking into HoloLens

EDUCATION

Carnegie Mellon · MDes · Interaction Design
2017 - 2019

Wrote master's thesis *Developing Embodied Familiarity with Hyperphysical Phenomena* investigating bodily representation and intuition within spatial computing via hand interaction prototypes

Carnegie Mellon · MA · Interaction Design
2016 - 2017

Studied design thinking, methods, and practices

Developed interface prototyping skills and an understanding of design for interactions

Explored the stimulation of environmental and social change toward more sustainable futures

St. John's College · BA · Liberal Arts
2011 - 2015

Rigorously traced evolution of knowledge by reading foundational texts ("Great Books") and investigating in a Socratic seminar setting

4 years of philosophy, mathematics, and literature,
3 years of laboratory sciences, 2 years of music theory

Wrote senior thesis *Graphical Representation of Motion and Time in the Works of Newton, Galileo, and Einstein*