

Jacob Joergens

German-American Dual Citizen

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Education | Bachelor's Degree in Physics from the University of Chicago October 2017-June 2021

Experience

dein Ansatz, LLC (<https://deinansatz.com>) New York, New York
Founder August 2024-Current

- Created a business around self-developed tech to customize parametric jewelry and design goods

Freelance Projects, Computational Designer February 2023-Current

- Created a model for SOM to optimize freeform architectural shapes towards stress-curvature alignment
- Developed a tool to explore the optimal floor plan layouts of a mass timber building typology
- Coded an AR experience with Austin Creative Tech
- Building an interactive, parametric jewelry customization tool for Guild + Facet

Atmospheric Physics Research Chicago, Illinois
Researcher June 2018-February 2023

- Redesigned the CHIWis-ICOS instrument for testing at the IEETA cloud chamber (Moyer Group)
- Identified problems in the BEAM carbon emulator for social cost of carbon research (Moyer/RDCEP)
- Explored commercialization of non-axial ICOS technology with postdoc Ben Clouser (NSF I-Corps)

57th Street Design (<https://57stdesign.com/>) Chicago, Illinois
Computational Modeler and Carpenter March-October 2021

- Built a parametric model of a mass timber building typology in ghPython/Rhino
- Prototyped a mass timber floor-cassette module and handmade hundreds of furniture pieces

Environmental Research Group (<https://enviroresearchgroup.github.io/erg/>) Chicago, Illinois
Board Member/Steering Committee September 2018-June 2021

- Led the modeling subteam in projects on building energy use, air pollution, and traffic

Uncommissioned Design Chicago, Illinois
Co-Founder January 2019-September 2020

- Awarded \$10K grant through the Polsky Accelerator to develop parametric furniture design startup

Watchtower Robotics Boston, Massachusetts
Engineer June-September 2019

- Designed soft-robotic parts and processes for water pipe-inspection robots

Vertical Farming New York, New York
Engineer/Farmer July 2016-September 2017

- Engineered automated sensors using IoT devices for Verticulture and Farm.One (www.farm.one)
- Designed and built a fully automated aeroponic green wall for a New York City private school

Interesting Side Jobs

Landscape at Highview Creations, NYC March 2024-August 2024
Cheesemonger at Rubiner's Cheesemongers, Berkshires March 2023-September 2023
Playground Designer/Builder at Common Worlds, Chicago April 2022-August 2022
Furniture Maker for Private Clients September 2018-June 2022
Cook at Quartier Libre jazz bar, Bordeaux May 2017-June 2017
Cancer Research Assistant at MSKCC (<https://doi.org/10.1084/jem.20150524>) June 2013-June 2016

Software/Hardware Programming Rhino, Grasshopper, Fusion360, Eagle, ESP32, RaspberryPi
Python, C, R, HTML/CSS, Three.js, Next.js, AWS, React