

# Ibrahim Ibrahim

Computational Designer, Technology Researcher

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I'm Ibrahim – a computational designer, and researcher. I study design technology at the Harvard Graduate School of Design in Cambridge, Massachusetts. My work focuses on creative machines, computational geometry and creative applications of machine learning within building technologies and design tools.

I concept, design, program and make real things that could impact the environments we live in. These objects and bits of code are spurred to adapt, augment, and transform the surroundings into something other than what was before. The resultant projects utilize the inextricable links between design, technology, digital fabrication, data, and art in both the virtual and real environments.

## Education

### Harvard University Graduate School of Design

Masters in Design Studies – Technology Mediums  
Cambridge, MA, Aug 2021–May 2023[expected]

**Massachusetts Institute of Technology** · Cross Registered  
Creative Machine Learning, Machines & Robotics  
Cambridge, MA, Aug 2021–Present

**Harvard University SEAS** · Cross Registered  
Computer Science & Macro, Micro, Nano Building Science  
Cambridge, MA, Aug 2021–Present

### American University of Sharjah (AUS)

Bachelor of Architecture [NAAB Accredited]  
Sharjah, UAE, Aug 2012–May 2017

## Skills

**Coding** · C. C++. Python. JavaScript. TypeScript. ThreeJs. NodeJs. HTML. CSS. SQL. Flask.

**CAD** · Rhino. Grasshopper. Autodesk Fusion. Autodesk Maya. Bentley Microstation. Z-brush.

**Visualization** · V-ray. Maxwell. Keyshot. Unreal Engine. Adobe Premiere Pro. Adobe AfterEffects.

**Digital Fabrication** · Robotics. Embedded Microprocessor Programming. Electronics. Mechanical Design. Kuka Robotic Arms. CAM Software. 3D-Printing. Casting. Laser. Metal Working.

**Research** · Design Thinking. Prototyping. Startup.

## Projects

**RockBot** · ([ibrahimibrahim.works/rockbot](http://ibrahimibrahim.works/rockbot))  
research on construction robots for irregular geometry fabrication

**Coded Space** · ([ibrahimibrahim.works/codedspace](http://ibrahimibrahim.works/codedspace))  
Self-supporting system of free-form GFRC panels for small scale structures

**Informed Verticality** · ([ibrahimibrahim.works/informedV](http://ibrahimibrahim.works/informedV))  
Research on generative design for vertical structures

**Painterly Structures** · ([ibrahimibrahim.works/painterly](http://ibrahimibrahim.works/painterly))  
Making painterly assemblies through scavenging

**NEOM Line** · (<https://www.neom.com/en-us/regions/whatistheline>)  
(Morphosis Architects) · 170km smart city urban development

## Design & Research Experience

### mOrphosis Architects

Project Designer & Smart City Planner  
Los Angeles, CA, Aug 2019–Oct 2021

### DAIMLAS

AI Startup · Co-Founder  
Toronto, Canada, May 2020–Aug 2021

### College of Architecture, Art & Design (CAAD)

Design Technology Research Fellow  
Sharjah, UAE, Sep 2019–Sep 2020

### UAE National Pavilion at the Venice Architecture Biennale

Researcher & Materials Lab Assistant  
Sharjah, UAE, 2019

### mOrphosis Architects

Intern Architect & Shop Fabricator  
Los Angeles, CA, Jan–Jul 2018

### OylerWu Collaborative

Architectural Intern & Digital Fabricator  
Los Angeles, CA, May–Aug 2016

### Ensamble Studio

Architectural & Fabrication Intern  
Madrid, Spain, Jun–Aug 2015

## Academic Experience

### Harvard University

Design, Digital Fabrication, & Programming Teaching Fellow  
Cambridge, MA Jan 2022–Present

### Digital Fabrication Labs (AUS)

Robotic Arm Fabrication Research Assistant · Ammar Kalo  
Sharjah, UAE, Jan–May 2019

Digital & Material Labs Fabrication Engineer  
Sharjah, UAE, Aug 2015–May 2017

### American University of Sharjah

Architectural Theory Teaching Assistant · Kevin Mitchell  
Sharjah, UAE, Sep–Dec 2016

Art History Teaching Assistant · Profs. Martin Giesn & John Montague  
Sharjah, UAE, Sep2013–May 2014

## Select Awards

**Harvard University Dean's Merit Scholarship** · 2021–2023

**MIT Hackathon** · First Place · May 2020

**Zagreb Observation Tower** · First Runner-up · 2019

**Inaugural Emaar Research Fellowship** · 2018

**Middle East Emergent Designer Award** · 2017

**Sheikh Khalifa Merit Scholarship** · 2016–2017

**Dean's Award for Academic Excellence** · 2017

**Sheikha Manal Young Artist Award** · First Place · 2016

**MAD · Motivation Attitude Dedication Award** · 2016

## Exhibitions & Conferences

**MADAR** · Dubai, UAE, Nov2019

**ASCA** · Denver, CO · Mar 2018

**ASCA** · Madrid, Spain, Jun 2018

**Amman Design Week** · Amman, Jordan, Oct 2017

**Dubai Design Week** · Dubai, UAE, Nov 2017

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