

# SEAN LAMB

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## EDUCATION

- 2020 **Master of Architecture**  
University of Toronto, Toronto ON
- 2015 **Bachelor of Environmental Design Studies (Architecture)**  
Dalhousie University, Halifax NS
- 2012 **Bachelor of Science: Mathematics and Biology**  
**Minor in Computer Science**  
McGill University, Montreal QC

## PROFESSIONAL EXPERIENCE

- 2023- **Computational Design Consultant** *Self-Employed*
- Concept design, design-to-fabrication processes, and custom plugin development for clients in industrial design, fabrication, architectural design, and installation art
  - Advising clients on transition to digital process: software integration and workflow
- 2022-2023 **Consultant** *Metafold (Additive Manufacturing Startup) and MESH Consultants*
- Developed custom computational design workflows to client specifications for a major manufacture
  - Volumetric design using custom lattice structures
  - Communicated across business lines to extend functionality of existing codebase
- 2019-2021 **Teaching Assistant: ARC253/381/355/2023** *University of Toronto*
- Planned and led Rhino and Grasshopper tutorials; software assistance and grading.
- 2018-2019 **Computational Design Intern** *Schmidt Hammer Lassen Architects, Copenhagen DK*
- Wrote Grasshopper and Python tools deployed across the competition department
  - Script-assisted digital fabrication of competition models
  - Developed and rolled out a Rhino plugin for internal use
- 2017-2018 **Research Assistant** *Architecture (Prof. Brady Peters), University of Toronto*
- Led a team of undergraduates in the parametric design of a competition entry, culminating in a museum installation with a digitally fabricated 1:1 mockup that won a People's Choice Award for best proposal; developed scripts for acoustic simulation
- 2016-2017 **Product Developer** *IPPINKA (Industrial Design/ECommerce Startup), Toronto ON*
- Developed warehouse management software using the Amazon WMS API
  - Oversaw design of a bike hook leading to a successful \$10,000 Kickstarter Campaign
  - Managed three industrial design interns through design, fabrication, promotion
- 2014 **Architectural Design Intern** *Sahuri + Partners Architecture Inc, Calgary AB*
- Prepared design development packages for three K-12 school renovations

## SKILLS

### Design Software

Rhino + Grasshopper + V-Ray  
Unity 3D + Steam Audio  
Adobe Creative Suite  
AutoCAD, Revit, Solidworks

### Computational Modelling

Grasshopper, GHPython,  
RhinoCommon, Kangaroo,  
Ladybug, Pachyderm,  
WallaceiX, Galapagos

### Additional Software

MS Office: Word, Excel, PowerPoint  
Slack, Zoom, Miro, MS Teams  
Google Drive automation, Git

### Programming and Scripting

#### Professional experience:

Python 3 + numpy + scipy  
Ironpython, C#, MATLAB,  
Gscript, Javascript

#### Some experience:

Javascript + HTML + CSS  
Java, C, PHP, Shell Scripting

### Building and Fabrication

#### Prototyping:

3-Axis CNC Milling  
5-Axis Robot Milling (Kuka)  
3D Printing  
Laser Cutting

#### Design for manufacturing:

Experience with sheet metal  
and wood design

#### Small scale building:

Installations, residential decks

## COMMUNITY EXPERIENCE

2013-2014

**VP Finance** Dalhousie Architecture Student Association

2013-2014

**Design Committee Representative** Dalhousie School of Architecture

## AWARDS

2017

### People's Choice Award

University of Toronto Art Center (Team Lead - competition entry and gallery installation)

2015

### Newfoundland and Labrador Alumni Scholarship

Dalhousie School of Architecture

## PUBLICATIONS

2018

### Spatial Sonic Networks: Simulating and Prototyping Acoustic Mirrors

Peters, B., Akiyama, M. Lamb, S., and Abu Ras, O.  
eCAADe 2018 Conference Proceedings