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 a three-person team 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 + VRay
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,
Javascript + HTML + CSS

Some experience:
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 Laborador 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