

# BRIAN (SU JONG) LEE

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## Summary

- **4+ years** of experience in **John H. Daniels** Faculty, specialized in design and digital/physical fabrication across architecture-related projects, which resulted in a **\$1250.00** scholarship from **OAA**.
- Achieved **#4 placement** as a team member in the internationally recognized Arch Hive Utopia 2023 case competition.
- **Introduced** new digital fabrication concepts in Grasshopper, such as attractor points, to 5th-year students in 1 hour as a student instructor for office hours, effectively troubleshooting the problems they frustratingly face.
- Participated in the Faculty Orientation and Mentorship program for over four years, **mentoring 10+ new students** for easier transition.

## Technical Skills:

- **Rhinoceros 7** proficiency
- **Revit, AutoCAD** Proficiency
- **Grasshopper** proficiency
- **V-ray** proficiency
- Beginner programming experience (Python)
- Adobe software proficiency (Photoshop, Illustrator, InDesign, Premiere Pro, After Effects)
- Generative AI proficiency (ChatGPT, Midjourney)
- Digital fabrication proficiency (Laser cutter, Rhinocam3d/CNC machine)
- Physical fabrication proficiency (woodwork machines, drill, soldering iron, pliers)
- **Sketching / Drawing**

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## Professional Experience

### Student Instructor | John H. Daniels Faculty (AALD) - Toronto, Ontario | 09/2024 - 06/2025

- **Generated** ideas and **refined** 5 second year students' work as a student instructor during an office hour about grasshopper problems for an assignment to use **digital fabrication** to **mimic** organic clay sculptures, including using catenary component to create an arch shape or using attractor points to follow the irregular surfaces of the clay, **increasing efficiency** during script creation while **minimizing errors**.
- **Advised** second-year student to enlarge programming art and adjust roof design in Grasshopper file for a programming assignment on a Zoom call with other instructors, resolving the **"How?"** of **mapping the art onto the surface**.

### Student IT Office Help Desk | Yuri Lomakin - Toronto, ON | 09/2023 - 03/2024

- **Streamlined operations and minimized bottlenecks** by replenishing printers and plotters' paper and ink cartridges, meeting the high printing demand of first- and second-year students, particularly during busy morning hours.
- **Communicated** with supervisor **continuously** and **absorbed** new skills quickly to adapt to printer operations and paper/ink storage, resulting in **streamlined maintenance** and improved printer/plotter efficiency.

### Student Manufacturing Technician | Webb Electronics - Vancouver, BC | 07/2022 - 08/2022

- **Coordinated** with other students and senior technicians to **assist in fabricating** elevator products, including soldering lead and screwing the wires to make buttons, speaker/microphone systems, and other electrical components, **optimizing workflow efficiency** by allocating more critical aspects of manufacturing to the senior technicians.
- **Demonstrated rapid mastery** of physical fabrication, including product testing (e.g., speaker and microphone testing), executing high-quality and efficient tasks. This innovative approach started a streak of **hiring student intern technicians**, significantly boosting production efficiency.

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## Co-curricular Experience

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**Case competition team member** | Future Living Lab - Arch Hive Utopia 2023 | 06/2023 - 08/2023

- Conducted extensive **research** on **various AI software** to create images depicting a utopian building design from an existing urban space for the competition, leading the team to adapt to generative AI processes quickly.
- Experimented with **AI software**, including **ChatGPT** and **Midjourney**, to generate innovative designs and create numerous images, where the chosen images ranked **4th place** and received a prize of around \$70 for the group.

**Case competition team member** | Future Living Lab - YAC Art Museum 2023 | 09/2023 - 11/2023

- **Developed** the base concepts for the art museum design in Weihai, Shandong, such as creating a zigzag pathway for the entrance and designing a **looped circulation**, which became critical in design.
- **Rendered** two images of the museum design using **Rhino Vray**: an axonometric view and a street-level view, both used in the final submission.

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## Community Outreach

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**Student Mentor** | University of Toronto John H. Daniels Faculty | 10/2022 - 04/2025

- **Advised** mentee with software help such as Rhino 3D to construct 3D models, including **CurveBoolean** command for outlining drawings, which ended up cutting down approximately 12 hours from software difficulties.
- **Mentored** a first-year student on a pavilion roof design programming project, guiding component selection by introducing the "shift list" component to fix data list management issues. This was graded as 95%.

**Orientation Leader** | University of Toronto John H. Daniels Faculty | 09/2021 & 09/2022 & 09/2023

- **Managed** incoming first-year student group by introducing general university tips and connecting to available resources, easing the transition to a new environment.
- **Immediately reported** to the coordinator a student who had forgotten his wallet at a nightclub and continuously followed up until the wallet was found at **1 a.m. downtown**.

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## Education and Training

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**Honours Bachelor of Arts: Architectural Studies**

University of Toronto John H. Daniels Faculty | 09/2020 - 06/2025

- Technology Studio III - **Constructed** a 1:10 scale model with a partner for the final pavilion design designated to provide a resting area in the Royal Botanical Garden, Hamilton. Received OAA's Exceptional Leadership Through Design Excellence: Sustainability Scholarship Award of **\$1250.00**.
- Technology Studio IV - **Designed** an interactive app using augmented reality as a group of three, where the guest critique that studies AR **requested for a copy** for their further **research** and **study**.
- Advanced Topics in the Technology of Architecture - Made two presentations as a group of three that **analyzed Masseria Rota**, a vernacular building built in the 17th century in Naples, Italy, and **CCTV headquarters**, a modern building in Beijing, China, by after extensive research, creating multiple analytical and critical points with diagrams regarding the buildings' ventilation and climate, intended program, history, etc. which awarded the **highest marks** amongst all the groups. **(81%)**
- Technologies of Architecture, Landscape, Urbanism, and Art II - Wrote a 1000-word essay about inspecting and analyzing Austrian Pavilion, in Dubai Expo 2020 and its usage of loam as a building material, and a 3000-word research paper, about a new thesis criticizing Hyperloop's potential to create a new perception of distance, space and time beyond the level of bullet trains, which got a very positive response, gaining grades of **90%** and **86%**, respectively.