

# Joonhaeng Lee

Computational Designer | BIM Consultant | Maker

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## Recent Work

**Current**      **Master of Design Studies Candidate, Harvard University Graduate School of Design**  
 Research interest lies in mass customization of design objects through utilizing web-based parametric modeling and fast prototyping machines.  
 Technical Assistant of 3D Scanning at GSD Fabrication Lab

**2016-2019**      **Building Information Modeling (BIM) Consultant, Syntegrate**  
 Duties included parametric design and design development of façade in initial design phase to construction phase. Panelization and optimization of façade panels to meet with fabrication constraints and cost issues. Automation of drawing generation and fabrication process. Set-up initial BIM model and integrate 3D models from various disciplines.

Sample Syntegrate Consulting Projects:

Date	Project	Architect	Client
2018	Louis Vuitton Flagship Store	Gehry Partners	Permasteelisa
2018	Paradise City Hotel	MVRDV	Steellife
2017	Alpha Dome City	Junglim Architects	Steellife
2017	Toyota Corolla Center	Takenaka Architects	Takenaka Architects
2016	Mt.Fuji Heritage Center	Shigeru Ban Architects	Shelter

**2016**      **Undergraduate Research Assistant, Building Informatics Group, Yonsei University**  
 Researched on desktop hologram device for visualization of 3D models. Designed and programmed device using Processing with Leap Motion.

## Education

**2021**      **Master of Design Studies in Technology Candidate**  
 Harvard University, Graduate School of Design

**2016**      **Bachelor of Architecture**  
 Yonsei University, College of Engineering

**2014**      National University of Singapore, School of Architecture, Exchange Student

**Achievements**

- 2017**            **Google Hack Fair 2017 Seoul**  
Nominated as finalist 20 teams, exhibited project on fair for 3 days  
Toilet control system for high-rise building using motion sensors with raspberry
- 2016**            **5<sup>th</sup> UAUS Pavilion Competition, Grand Prize**  
Annual pavilion competition held by Union of Architecture University in Seoul  
10 square meter size pavilion made of reused coffee ground brick
- 2015**            **S Design Award**  
Selected project of Human Environment & Design department's design festival  
Interactive bulletin board using Twitter API
- 2009 - 2012**    **National Science & Technology Scholarship**  
A full-ride scholarship as a student excellence in mathematics and science (Physics).

**Additional Skills**

- Software**      Rhino and Grasshopper, Catia, Photoshop, Illustrator, InDesign, Microsoft Office Package
- Fabrication**   CNC milling, 3D Printing, 3D Scanning, Laser Cutting.
- Programming** Python, C, C#, JavaScript, Processing, Arduino.
- Languages**    English (business fluency), Korean (native fluency), Spanish (basic).
- Lived in**        United States, Spain, Argentina, Singapore, Korea.
- Worked in**      Hong Kong, Korea, Japan.