

## Education

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- 2021 - 2023 **Rhode Island School of Design** | MID
- 2013 - 2015 **Stanford University** | MS
- Stanford d.school Graduate
  - Stanford ARPA-E Funded Project. Energy Behavior Initiative: Product Lead, Research & Design
  - PBL Lab: Mentor and Cross-disciplinary Advisor (2015+). Structural Engineer, winning team (2014).
  - Stanford Graduate Student Council: Officer
- 2008 - 2011 **University of Canterbury, New Zealand** | BE (Hons, First Class)
- 2012 WCTE Author: "Study of a high performance timber building"
  - 2011 Christchurch City Council Design Challenge: First Prize + Travel Fellowship
  - Post-Tensioned Timber Research: Seismic performance & feasibility study

## Experience

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- 2020 + **Independent Consultant** Boston/Los Angeles/Oakland/Seoul  
Sr. Technology Analyst + Engineer
- Technical consultant to early stage modular manufacturing+construction startups: R2 and Cassette Systems
  - Responsible for development of core technology product and analysis methods, reporting to CTO/CEO
- 2018 - 2020 **RAD Urban** Oakland  
Sr. Structural Engineer
- Leadership role in engineering, serving as senior engineer across two high-rise modular projects.
  - Technology development role focused on structural systems and assembly, reporting to CEO.
- 2018 **Katerra** San Francisco  
Structural Automation + Systems Engineer
- Founding member of Systems Engineering + Automation team. Pitched CTO in week 1 for roadmap, vision for development path, and built out team to execute the project over Q3-Q4.
- 2015 - 2018 **Arup** San Francisco  
Analyst - Advanced Technology + Research
- Expanded collaboration with clients including BIG, Heatherwick, Foster + Partners, Snohetta, ZGF, WeWork.
  - Digital fabrication champion, leading first use of additive manufacturing in billable work.
  - Finite element analysis in LS-DYNA. Seismic nonlinear time history analysis of complex structures including the implementation of novel material models for concrete and masonry.
  - Probabilistic seismic hazard analysis for large portfolios, such as UBC portfolio containing 300+ buildings.
  - Automated the structural assessment of large portfolios using Julia, Python and LS-DYNA.
- 2015 **EnergyNest** Stanford/Norway  
Consultant - Business Development
- Represented Norwegian innovators' novel cost-leading energy storage technology entering the U.S. market.
  - System level design thinking and financial modelling produced a business plan for new application space.

