BAPTISTE HIGGS

Baptiste.Higg.gs

Experience

Software Engineer Computational Designer

2021-Current

Lendlease Podium

Developed an ecosystem of 20+ grasshopper plugins to automate MEP, structural & spatial building design. Built web visualisation tools using React & Three.js. Developed a common Object Model for interoperability. Prototyped various machine learning optimisations.

Computational Designer & Researcher

2017-2021

BVN Architecture

Published 6 technical articles with high traffic. Collaborated on innovative technologies with commercial adoption including 1 patent & 2 papers. Researched, prototyped, and developed in-house tools that increased productivity and intelligently informed key decisions.

Academic Tutor & Researcher

2018-2021

University of New South Wales

Taught 100+ students Grasshopper, Python, & digital fabrication. Developed & researched tools for IoT sensor data interpretation for data-driven design.

Education

G.C. Machine Learning & Computer Vision | GPA: 6.5

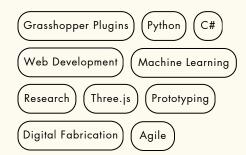**2020**

Australian National University

Bachelor of Computational Design | WAM: 84.7

2017-2019

University of New South Wales

About

Skilled Computational Designer with 7 years industry experience. Passionate about innovation, automation, and optimisation. Loves learning & collaborating with others.

Skills

- Grasshopper Plugins
- Python
- C#
- Web Development
- Machine Learning
- Research
- Three.js
- Prototyping
- Digital Fabrication
- Agile

Publications

Journal of Architectural Science

The Shakedown: Developing an Indoor-Localization System for Quantifying Toilet Usage in Offices (2020)

CAADRIA Conference

Sanitary Sanity: Evaluating Privacy Preserving Machine Learning Methods for Post-Occupancy Evaluation (2020)

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