

210 Merrimack St, Unit 200
Lawrence, MA, USA
01843
☎ 978-376-3500
✉ louis.lbnc@gmail.com
🌐 www.lbnc.ca

LOUIS LEBLANC

Education

- 2018 **C# Scripting and Plugin Development for Grasshopper**, *Online Course by the Institute for Computational Design and Construction, University of Stuttgart.*
- 2018 **Artificial Intelligence Strategies for Space Frame Design**, *Week-long workshop led by Institute of Architecture, University of Applied Arts Vienna researchers, Smart Geometry 2018.*
- 2013 **BASc in Mechanical Engineering**, *University of Ottawa, Ottawa.*

Experience

- 2019-present **Technical Designer II**, *New Balance, Boston, Massachusetts, USA.*
Computational Design, Sole Unit Development and Engineering.
 - Develop computational design tools which use athlete data to generate innovative designs.
 - Bring new digital tools and workflows to the organisation in order to speed up design and development.
 - Lead development and engineering of sole units for in-line products. Work closely with design, development and product management as well as Asia assets.
- 2015-2019 **Mechanical Designer**, *Dynamo Playgrounds, Rockland, Canada.*
Mechanical Design Engineering, Manufacturing Support, Industrial Design.
 - Technical lead on large scale custom projects from initial design vision through engineering and finally supporting manufacturing.
 - Lead development of a new product line. Computational design tools allowed to quickly explore new shapes for play structures which follow strict design requirements with respect to aesthetics, structural viability and safety standards.
 - Developed a computational model through full scale dynamics testing of play vehicles. Analysis and insight gained using Python notebooks.
- 2014-2015 **Freelance Consultant**, *Prototype D, Ottawa, Canada.*
Industrial, mechanical design and embedded systems in the development of new products.
 - Conceived a novel automated 3D mapping surveying system. Formulated the system's architecture and ultimately fabricated a hardware and software proof of concept using 3D printing and the Arduino platform.
- 2011-2013 **Research Assistant**, *University of Ottawa & Atomic Energy Canada, Ottawa, Canada.*
Research project in the dynamics of the deflagration of hydrogen mixtures in air. This research was done by blowing soap bubbles filled with a hydrogen-air mixture onto a flat surface and filming their combustion with a high speed camera.

Skills

CAD	Rhino/Grasshopper, Blender, Cycles Rendering Engine, Keyshot	Languages	Native proficiency in English and French
Electronics	Arduino, Atmel AVR	Programming	C, C#, Python
Office	Adobe Creative Suite, MS Office Suite	Hands-On	Machine Shop Training, 3D printing

Publications

L. Leblanc. GHAnsys. github.com/louislbnc/ghAnsys, 2018. Python framework to enable communication between Grasshopper and the Ansys simulation package.