MAPENDO PIERRE

ARCHITECTURAL ENGINEERING | UNIVERSITY OF WATERLOO

M mpngilin@uwaterloo.ca
T +1 (613) 854-8464
A 262 Hazel St, Waterloo

SKILLS

- Revit
- Dynamo
- AutoCAD
- SketchUp
- 3DsMax
- Photoshop
- Rhinoceros
- Grasshopper
- Python
- Excel

AWARDS

TimberFever Competition Winner
Libgen Competition Shortlist
$1000 Merits Scholarship
Ontario Scholar + Honours
French Public Speaking Winner

EDUCATION

Candidate for B.A.S in
Architectural Engineering from
University of Waterloo

International Baccalaureate from
Colonel By Secondary School

INTERESTS

Salsa dancing
Sports and fitness
Photography
Community development

SUMMARY

- Extensive experience in **BIM technologies** with Revit, 4D simulations, and parametric scripting
- Unparalleled **work ethic**, with a GPA ranking top 10 in program, and excellent work term ratings
- Advanced **technological aptitudes** with 5 years of programming experience
- Impeccable **communication** and **collaboration** gained through 3,000+ hours of volunteering
- **Eagerness to learn**, highly developed **problem solving** skill, **time management**, and **initiative**

PROFESSIONAL

Virtual Construction Services (VCS) Coordinator — Ledcor   Sep-Dec 2019

- 400+ hrs modelling commercial/residential buildings with Revit from plans and specifications
- Implemented multi-user VR environments for collaborative mock-up reviews using Unity and C#
- Automated formwork and concrete volume calculations using Dynamo to support estimating team
- Generated 5+ 4D simulations and site logistic models using Synchro and 3Ds Max respectively
- Recorded on-site LIDAR scans and analyzed 3D point cloud models for construction accuracy

Instructional Technology Assistant — Humber College   Jan-Apr 2019

- Single-handedly developed a full-stack React.js web app to streamline data collection in 4 weeks
- Applied UDL principles to build an AODA compliant iPad front-end for data entry
- Created compelling visual reports using Google API to inform departmental decisions
- Offered workshops to introduce new classroom technologies to school faculty

Front-End Web Developer — TekWorthy   Jan-Mar 2015

- Digitalized visuals into interactive web pages using HTML5/CSS to enhance client web presence
- Developed impeccable time-management to handle strict deadlines and time-sensitive schedules
- Successfully completed complex scripting tasks with little instruction and prior experience

RELEVANT

Architectural Engineering Studio — University of Waterloo   Sep 2018 - Present

- Drafted 40+ technical drawings using AutoCAD and hand-drafting techniques with high accuracy
- Constructed dozens of physical models at different scales for presentation purposes
- Designed 3D models and renderings using Revit, Sketchup and Rhino, along with Photoshop
- Learned about design and construction processes, and building science from industry leaders

Winner of TimberFever Design Competition   Sep 2018

- Competed against 16 teams across Canada and won 1st place with a $1500 cash prize
- Designed and built a water refill station out of lumber in 3 days with a group of 5 students
- Used industry-grade machinery to create complex wood geometries

VOLUNTEER

Program Coordinator — Pebbles to Pearls   Jan 2018 - Present

- Coordinated team of 10 through regular progress meetings to ensure systematic growth
- Ran weekly activities engaging 50+ community members to promote unity in the neighbourhood
- Trained mentors to deliver program and facilitated meetings, demonstrating organizational skills
- Mentored group of youth ages 11-15 in honing their talents to positively impact their communities