# Justin Evangelista

(905) 977-9754 ◆ Toronto ON
justinantonioevangelista@gmail.com ◆ linkedin.com/in/justinevangelista

## EDUCATION

**B.Eng.** in **Chemical Engineering**, McMaster University — Graduated June 2025

- Specialization in **Process Systems Engineering (PSE)**

## SKILLS

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|---|---|
| **Programming** | Python, MATLAB & Simulink, GAMS, VBA Macros |
| **Platforms and Tools** | ASPEN Plus & Energy Analyzer, PIPEFLO, AutoCAD, Autodesk Inventor, Minitab |
| **Technical Skills** | Process Modeling & Simulation, Optimization, Big Data Methods, Laboratory Techniques |

## RELEVANT EXPERIENCE

**Process Engineering Intern** — 1.5 Years
Schaeffler Aerospace Canada Inc. — Stratford, ON

- Developed Python optimisation tool for > 700 cage geometries, **reducing electro-plating racks 40 %** and saving $25 k/yr consumables
- Built C++ (Qt) MODBUS GUI for six industrial dryers **cutting setup time 90 %** and standardizing bake cycles
- Automated SAP drawing-OCR with OpenCV/Tesseract**, producing 300+ inspection reports/week** and eliminating manual data entry
- **Authored 30+ LOTO safety procedures** for cyanide-waste systems, supporting EH&S compliance
- Created Excel/VBA calculators for plating QA, **reducing lab turnaround time by 25 %** and standardizing analysis
- Created Python (Tkinter) GUI for lot tracking, **saving ~8 h/week** in administrative processing

**STEM Tutor** — 3 Years
Frontier College — Hamilton, ON

- Tutored AP/IB STEM students (grades 9–12); simplified complex science topics using visual aids and analogies

**Activities Executive** — 2 Years
Science Fundamentals — Hamilton, ON

- Created hands-on science demos for youth outreach, promoting STEM learning through fun experiments

## PROJECTS

**Hatch Ltd. Capstone**

- **Designed hydrometallurgical plant** for battery-grade NSH; scoped flowsheet, CAPEX, and PLS recycling

**Airport Optimization**

- Built MILP-based GAMS optimizer for airport landings, gates, and takeoffs; **minimized delay times and maximized runway utilization**

**Acetone Plant**

- **Developed PFD, P&ID, and economic model** for an acetone plant; included SIS logic and cost-benefit analysis

**Prediction of Credit Risk**

- **Built ML classifier** for loan default risk using MATLAB and big data techniques (Deep Learning Toolbox)

**FCC Controller**

- Designed discrete-time MPCs in Simulink for fluid catalytic cracker; **stabilized reactor temperatures and improved yield selectivity**