

# Ryan Baker

Calgary, AB | 403-581-3162 | <https://ryanwbaker.github.io/portfolio/index.html> | [ryanwbaker87@gmail.com](mailto:ryanwbaker87@gmail.com)

## Highlights of Qualifications

- Recent electrical engineering graduate with passion for software and artificial intelligence.
- Proficiency in Python, JavaScript, C, and Excel VBA.
- Experience with artificial intelligence and deep learning libraries/algorithms in Python (scikit-learn, FastAI, and TensorFlow libraries).
- Regular user of Docker and GitHub.
- Developed a full stack software solution for a 'smart watch for horses' engineering capstone project using Python Django, docker, PostgreSQL, GitHub, and AWS.
- Exceptional knowledge of Microsoft Office (Word, Excel, Powerpoint, Outlook).
- Well rounded education (also educated with an MBA in Strategic Planning and B.Sc.Kinesiology).
- Successfully completed many self-inspired projects (see the header for a portfolio link).
- Self motivated, passionate about learning, can work well independently or with others, and have leadership experience.

## Education

<b>Bachelor of Science in Electrical Engineering, Digital Minor</b> <i>University of Calgary</i>	<b>Graduated May 2023</b> <i>Calgary, AB</i>
<b>Electrical and Computer Engineering Technology (Year 1)</b> <i>British Columbia Institute of Technology</i>	<b>Completed April 2018</b> <i>Burnaby, BC</i>
<b>Master of Business Administration, Specialism in Strategic Planning</b> <i>Correspondence: Edinburgh Business School (Heriot-Watt University)</i>	<b>Graduated May 2017</b> <i>Edinburgh, Scotland</i>
<b>General Studies</b> <i>Medicine Hat College</i>	<b>2011, 2012</b> <i>Medicine Hat, AB</i>
<b>Bachelor of Science in Kinesiology</b> <i>University of Alberta</i>	<b>Graduated June 2010</b> <i>Edmonton, AB</i>

## Work Experience

<b>Student Researcher</b> <i>University of Calgary</i>	<b>May 2022 - Present</b> <i>Calgary, AB</i>
---	---

### Significant Accomplishments

- Conducted experiments on ground beef to assess feasibility of using low power microwaves for hydration monitoring in livestock.
- Used Python and R to process microwave ground beef measurements to data visualizations and fit to complex mathematical models of dielectric properties such as the [Cole-Cole](#) equation (rough draft of paper available upon request).

<b>Office Manager – Accounts Receivable, IT, and Payroll</b> <i>Quick Way Electrical (1999) Ltd.</i>	<b>June 2015 – Present</b> <i>Medicine Hat, AB</i>
---	---

### Regular Duties (while enrolled in full time university studies):

- Manage revenue for large contract projects (some projects over \$1,000,000).
- Manage payroll for 90+ employees.
- Troubleshoot and maintain all company computers (usually remotely).
- Continuously refine five-year business plan and company strategies with owners.

# Ryan Baker

Calgary, AB | 403-581-3162 | <https://ryanwbaker.github.io/portfolio/index.html> | [ryanwbaker87@gmail.com](mailto:ryanwbaker87@gmail.com)

## Significant Accomplishments

- Spearheaded implementation of Sage 100 Contractor; a company-wide enterprise resource planning software that manages all aspects of a small-to-medium sized construction company.
  - o Total time: 14 months (including research and assessment of various softwares).
  - o Estimated overhead cost savings/year: \$100,000.
- Prevented a \$10,000/day downtime expense by managing a server upgrade with IT consultants over the course of two weeks.
- Improved employee assurance by switching to a more flexible health benefits program that also saves the company \$8,000/year.
- Independently ran a marketing campaign including symposium registration, graphically designing a banner and matching brochures, and generating/tracking sales/leads.
- Six months after hire, temporarily managed the entire company for three weeks while the owners were away.

## Junior Accountant

July 2012 – June 2015

Goodyear Canada Manufacturing Plant

Medicine Hat, AB

- Originally hired for the Manufacturing Leadership Development Program (“MLDP”)
  - o This was a one-year management training program; developed “Standard Work” documents to ensure procedures, roles, and responsibilities were consistent for all 50 plant positions.
- Reduced an eight hour/day workload to two hours/day with a macro spreadsheet system. The extra time was used to further improve efficiency of other positions and operations.
- Processed payroll for ~300 employees with zero missed paycheques.
- Trusted to fill in for two high-responsibility positions for extended periods of time:
  - o **Continuous Improvement Officer (four months):** motivated employees to work on improvement projects by being positive and rewarding top performers.
  - o **Plant Scheduler (five weeks):** Prevented a plant shutdown by quickly learning and filling in for this position after an employee suddenly passed away.

## Apprentice Electrician

June – August 2007, 2006, 2004, 2003

Quick Way Electrical (1999) Ltd.

Medicine Hat, AB

- Assisted with commercial/residential wiring on job sites, delivered supplies, and reorganized electrical inventory according to use/function

## Hobbies/Interests

- |  |               |
|--|---------------|
| • Electronics (Arduino, raspberry pi)            | • Cooking     |
| • Computers (own a home server and personal NAS) | • Photography |
| • DIY and home renovations/repairs               | • 3D printing |
| • Golf   | • Movies/TV   |
|  | • Fitness     |
|  | • Fishing     |

References available upon request.

*Thank you for your consideration!*