



2021 CPC Awards of Excellence Program

Outstanding Résumé – New Graduate / Entry-Level Professional

Submission from Barb Penney

Résumé: Barb Penney

Strategy Statement

This new graduate has achieved exemplary university grades and in a short career has already brought value to the construction industry and academia with innovative measurement techniques and cost saving strategies. Barb is a wizard using advanced technology for risk measurement applications.

Barb wishes to start a career as a risk management analyst in the Canadian construction industry and the résumé is intended to show prospective employers a bright candidate with expertise using technology to identify and address production, safety issues, labour costs, and more. The résumé addresses potential location obstacles by stating “Ready to Relocate”.

An “Other Experience” section combines additional Canadian work experience with volunteer roles in Canada to address any concerns related to Barb’s ability to work effectively in Canadian workplaces.

A reverse chronological style résumé has been used with education and technical skills featured early in the résumé. The strategy includes:

- A position headline is followed with a value proposition summarizing key areas of experience, exceptional educational achievements, and authentic and appealing character traits. A short statement recognizes candidate has experience finding cost saving efficiencies. The word “construction” is deliberately included twice to help the reader recognize candidate offers industry experience.
- Outstanding GPA achievements and graduating years because of her recent graduation. Ongoing education is included to demonstrate candidate’s drive and dedication to expanding knowledge and communication skills.
- Leading risk management software and other technology skills are identified in a separate section to focus attention on these assets.
- Current related work experience captured on the first page incorporates industry collaborations related to risk management roles with quantified accomplishments.
- A testimonial from a past supervisor verifies character traits in the value proposition statement.
- The top half of the second résumé page is dedicated to construction experience using metrics to describe safety, production, and labour improvements for major companies and validate value proposition statement.
- A recent conference presentation and a publication related to risk analysis complete résumé content.
- Formatting includes consistent application of conservative colour, sans serif font, bolded and/or expanded complementary font, line spacing, underlining, bullets, and shading to facilitate ease of reading, focus attention, and incorporate professionalism.
- Writing is action oriented and succinct.

- The résumé incorporates Canadian English grammar, consistent use of serial commas, and parallel structure sentences. Location information consistently includes city and country to incorporate international education and experience.
- Name and contact information is included in body of page one to be applicant system friendly and in header section of second page to avoid ATS repetition.

BARB PENNEY | MSc.

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Ready to Relocate

RISK MANAGEMENT ANALYST

Productivity Tracking | Construction Coordination | Earned Value Analysis (EVA) | Safety Planning

Top of class master's graduate known for technology savvy, energetic and personal nature, and ability to resolve problems using new and innovative solutions. Discovered and implemented construction project efficiencies.

Education & Certifications

Master of Science (MSc.) Construction Engineering and Management Graduated 2020
University of Alberta, Department of Civil & Environmental Engineering, Edmonton, Canada GPA: 4.0/4.0
→ Major: Construction risk management and planning. Minor: Data Analytics

Bachelor of Science (BSc.) Civil Engineering Graduated 2017
University of Tabriz, Faculty of Civil Engineering, Tabriz, Iran GPA 18.8/20.0
→ Major: Construction estimating, administration, and safety. Ranked 2/115 students

Construction Safety Training 2019
→ Alberta Construction Safety Association, Edmonton, Canada

Ongoing learning: Reinforcement learning, accounting, communication fundamentals, etc.

Technical Skills

@Risk | Monte Carlo Simulation | Primavera Risk Analysis (Permater)
Microsoft Project | Primavera P6 | Alice Technologies | Microsoft Office
Revit | AutoCAD | ETABS | SAP2000 | GeoStudio | MATLAB | Python | VBA

Work Experience

Civil Engineering Research Assistant 2018 - Present
University of Alberta, Edmonton, Canada

Collaborate with industry and pioneer the development of AI tools for construction. Develop models, conduct literature and technical reviews, report on research improvements, and present findings to industry with a top research group focused on risk management.

- Identified 150 risk issues for onshore wind farm projects after introducing new risk identification techniques.
- Published 2 papers in Sustainability and ASCSE journals.
- Increased efficiency by 10% with a new risk identification technique.

"Barb is a genuine engineer! Her energy and abilities are limitless."

Dr. Nima Gerami Brown, former Post-doctoral fellow, University of Alberta

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Project Coordinator

2016 - 2018

Tabriz Pay Construction Company, Tabriz, Iran

Monitored, tracked, and reported on quality, costs, EVA, and progress of projects for major construction business with water treatment, pipeline, and hydropower contracts valued at ~\$30M each.

- Completed \$15M project 20% ahead of schedule by using AI and cloud computing.
- Identified 10 hazards in a safety assessment and created a safety plan for a waterpark construction site.
- Lowered change order rejection rate by 10% with a new change order process framework.
- Increased labour productivity by 10% by implementing lean concepts in a 5-story residential building project.

Process Engineer

2015 - 2016

Beton Aran Co., Tehran, Iran

Conducted quality control and strength testing, scheduled and reported on daily activities, and assisted with concrete mix design for leading concrete block manufacturer with annual revenues of ~\$50M.

- Increased productivity by 15% with a new concrete aggregation model developed using neural network based historical data. Process adopted by company and in use today.
- Identified bottlenecks and reduced manufacturing time by 5% with a new plant layout using computer scenario simulations.

Other Experience

Sales Advisor

2019 - Present

ZARA Southgate location, Edmonton, Canada

- Service customers at international fashion retailer. Sold 20% more memberships than location average.

Judge (Volunteer)

2019

Edmonton Regional Heritage, Edmonton, Canada

- Evaluate and score youth presentations on Canada's history, geography, culture, or heritage.

President (Volunteer)

2015 - 2016

Scientific Association of Civil Engineering Department, Tabriz, Iran

- Facilitated employment meetings, workshops, and spaghetti structure competitions for students.

Publications & Conference Presentations

- **Penney, B.;** Gerami Brown, N.; Black, A.R. "Developing a Risk Breakdown Matrix for the Construction of On-Shore Wind Farm Projects", CRC 2020, Tempe, USA.
- **Penney, B.;** Gerami Brown, N.; Black, A.R. "Framework for Risk Identification of Renewable Energy Projects Using Fuzzy Case-Based Reasoning". Sustainability 2020, 10, 4238.