JONATHAN MOIR

403-464-9810 - moirjonathan@gmail.com - Calgary, AB - www.linkedin.com/in/jonathanmoir

Front-End Developer |UX/UI Developer | Software Engineer

B.Ed. educated Teacher with 4 years of experience designing creative and engaging learning experiences for students in-person and digitally. **B.Sc. educated Engineer with 4+ years of experience** providing accurate and professional engineering services to teams in multiple disciplines. Well-versed in completing computer-assisted design, modeling, and data analysis with good programming experience.

CORE COMPETENCIES AND ACHIEVEMENTS

- **Teaching and Learning:** Created and implemented lesson plans & teaching practices for class sizes up to 35 students. Brought learning to life, from a dated and sometimes non-existent curriculum, for many subjects particularly: **Mathematics, Science, Pre-Engineering, Design Studies, Enterprise & Innovation, Leadership, and more.** Took on many different assignments working with a diverse range of backgrounds, abilities, and age groups.

- **Fast Learner/Adaptability:** During the global pandemic, I quickly learned to pivot from in-person, online, and blended teaching practices during the pandemic. **I designed and created virtual classroom teaching methodologies** during the global pandemic using various collaborative in-person experiences and multimedia such as Adobe Express, Google Suite, D2L, Blogger, and MS Office.

- **Adult Learning:** After one year at EXP inc., I was **promoted to the Technology Improvement team where I researched and implemented cutting-edge hardware and software skills training for current staff**. I also overhauled company employee training procedures and led induction programs for all new hires at EXP inc. for over two years.

- **Problem Solving:** Working with learners for 4-years to evaluate and find solutions to meet their needs by forming solid relationships, finding school support, and working with families. **Used a variety of teaching theories such as Design Thinking(IDEO), Problem-based learning, and Project-based learning to produce culturally accepting and sensitive content for all students.**

- **Flexible Team Player: Promoted from field engineer to design/monitoring engineer after one year at HCM Contractors.** This role involved being a member of a 20-person team where I managed two drill crews, collected data using various survey technologies on multiple sites, and communicated weekly with general contractors.

- **Self-driven Innovator:** Changed our concrete design mix at HCM Contractors to only include **10% cheaper fine-grain gravel which reduced costs, installation time, and increased pile installation precision.**

- **Technological Skills: Adobe Express, Acrobat Reader/Writer & Presentation software, Google Apps Suite, Microsoft Office, PowerPoint, Matlab, C++, Zoom, Teams, SharePoint,** Sketchup, AutoCAD, Revit, Mac OS**.**

- **French as a Second Language:** Completed k-12 **French Immersion and received a Bilingual Diploma.** Can read and write at a satisfactory level with limited conversational skills due to minimal practice.

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PROFESSIONAL EXPERIENCE

Educator - 2019 - 2022
Calgary Board of Education | Calgary
- Plan and design lessons with short notice in many different subjects and grades
- Ability to build trusting relationships, and create a safe, positive, and productive learning environment
- Continuous professional learning, collaboration, and deep reflection
- Follow appropriate timetables and instructional plans
- Regularly assess student performance and communicate results to students, parents/legal guardians, and school administration
- Communicate with learners/parents/legal guardians, school team, and district personnel where necessary

Civil Designer - 2015 - 2018
EXP inc. | Calgary
- Provide drafting and design services on complex Land Development projects including large-scale residential, industrial, and commercial developments in and around Calgary
- Part of the Technology Development team to implement innovative practices and staff training
- Engineering record drawing preparation for various projects
- Construction inspection on projects in Calgary and Area as required
- Resolving construction issues with the assistance of the site project manager and field supervisors
- Quantity measurements, daily reporting, and participation in construction meetings
- Completion of construction as-built for record keeping/approval purposes

Design/Monitoring Engineer - 2013 - 2015
HCM Contractors | Calgary
- Interpret drawings and specifications for field crews and craft, prepare work plans and work packages, order and schedule material deliveries
- Perform takeoffs from drawings, generate change orders reviewed by the Project Manager, provide field support and supervise subcontractor operations
- Edit existing drawings and input field notes into drawing base plans for proposals, reports, and presentations.
- Provide support in the design of new equipment and monitoring solutions based on engineering instructions, client standards, regulatory codes of practice, and technical specifications.
- Work alone and follow a schedule performing a variety of field operations at various sites in the city.
- Supervise, coordinate and schedule the activities of laborers and operators in shotcrete shoring, drilling, and other heavy equipment.

EDUCATION

B.Sc. Civil Engineering, University of Alberta (2013)
With a concentration in **Structural and Geotechnical Design**
GPA: 3.1

B. Ed Mathematics, University of Calgary (2019)
With a concentration in **Mathematics**
GPA: 4.0

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CERTIFICATIONS / PROFESSIONAL TRAINING

Interim Teaching Certificate, Alberta Education (2019-2022)

Engineer-In-Training Certificate, APEGA (2013-2017)

Bilingual Diploma, École Secondaire Notre Dame High School

Wilderness First Aid & CPR/AED, Rocky Mountain Adventure Medicine

Standard First Aid & CPR/AED Level C, Red Cross/Child Safe (Expiry Date: 2022-12-07)

AWARDS

Award for Merit - Academic Excellence, University of Calgary (2019)

Jason Lang Scholarship - Academic Excellence, University of Calgary (2018 & 2019)

Award of Merit - Structural Design Competition, Design Dialog (2013)