

# ANDREW VOLK, M.Sc., P.ENG.

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## CAREER PROFILE

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**Department of Health, Children, and Youth; Special Projects, Opioids | Métis Nation of Alberta** June 2018 - Present

- Naloxone training will have gone to over 80 different communities across Alberta
- Camp Leader at the Métis Youth Culture Camp at Métis Crossing

**Technical Engineering Advisor**

June 2018 – Present

**Assistant Operations Manager | FourQuest Energy**

June 2016 – June 2018

**Project Engineer | FourQuest Energy**

November 2015 – June 2016

**Field Engineer | FourQuest Energy**

March 2014 – November 2015

**Assistant Operations Manager | FourQuest Energy**

June 2016 – June 2018

There was not an Operations Manager while I was Assistant Operations Manager – I had these role and responsibilities.

- Safety
  - Primary responsibility was to ensure safety for our people through field level inspections, audits, company wide weekly safety meetings, statistics reporting, and employee review.
- Quality
  - Created and evaluated operational strategies and implemented improvements.
- Personnel
  - Increased workforce by 2 times (125 people) in one year to keep pace with sales demand: made job descriptions, posted ads, interviewed candidates, training, and negotiated salary.
  - Develop productive, profitable, and achievement oriented working environment for employees through training, performance evaluation, promotion, and termination activities.
- Equipment
  - Created equipment utilization and shortfall forecasts based on sales data.
  - Purchased long lead time, large capital equipment based on forecasted requirement.
  - Ensured maintenance program was developed and implemented (including Red Tag, Green Tag).
- Operations Management
  - Negotiated with clients after bid award for scope changes, equipment malfunctions/breakdowns, and invoice payment. Negotiated settlement on outstanding \$3 MM lawsuit.
  - Predict, control, and reduce operational cost and risk.

**Project Engineer | FourQuest Energy**

November 2015 to June 2016

- Project Manager for three to five simultaneous FourQuest Energy Projects.
- Created manpower-weighted schedules, three-week look ahead plans, GANTT charts, cost projections, and progress certificates. Directed teams of field staff in executing engineered scopes of work. Ensured a culture of safety
- Detailed cost reporting, invoicing, and contractual negotiations helped secure additional scope.
- Procured additional work, typically doubling the initial project scope. Projects were completed on time and schedule.

**Project Manager and Engineer** at Suncor Fort Hills, Apr. 2016 to May 2016, Budget of \$4M

**Project Manager and Project Engineer** for FourQuest Energy Projects at CNRL Horizon, May 2015 – Mar. 2016, \$10M

**Project Manager** for Tecnicas Reunidas at VDU-DRU Project, CNRL Horizon, Aug. 2015–Mar. 2016, Budget of \$3.5M

**Project Manager** for Rice Lake Canada at Plant 44 & 48A Project, CNRL Horizon, Nov. 2015–Mar. 2016 Budget of \$1.5M

**Project Manager/Engineer** for SRS Industrial at Plant 66, CNRL Horizon, Dec. 2015–Mar. 2016 Budget of \$400k

**Project Engineer** at ROF C3+ Project for Williams Energy at Pembina NGL, Aug. 2015 – Sept. 2015, Budget of \$2.5M

**Project Engineer** at HLEP Project for Williams Energy at CNRL Horizon, May 2015 – Dec. 2015, Budget of \$500k

**Project Engineer** at Hydrogen Plant for Air Liquide at CNRL Horizon, May 2015 – Apr. 2016, Budget of \$25k

**Project Engineer** for CNRL at CNRL Gold Creek Facility, Jun. 2015, Budget of \$150k

**Project Engineer** for Burns and McDonnell at Queen Elizabeth Repower (SaskPower), May 2015, Budget of \$400k

**Project Manager/Engineer**, Tecnicas Reunidas at HSU Project, CNRL Horizon, Nov. 2014 – Apr. 2015, Budget of \$800k

**Project Manager** of Brine Water Piping Flush at K+S Potash, Oct. – Nov. 2014. Budget of \$650k

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## CAREER PROFILE (CONTINUED)

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### Field Engineer | FourQuest Energy

March 2014 – November 2015

#### Field Engineer for pre-commissioning of KEP Utilities at Imperial Oil – Kearl Lake, Jun. 2014 – Jan. 2015, Budget of \$5M

- Developed designs to efficiently clean pipes, and designed test packages for the field staff.
- Assisted all technical operations and pre-commissioned piping. Lead meetings with IOL operations, projects, and primary contractors.
- Maintained a positive relationship with the client, which resulted in the procuring additional work, and doubling the original budget of \$2.5million to \$5million.

#### Field Engineer at CNRL Horizon for DRU Project Lube Oil Flush. Apr. - May 2014, Budget of \$300k

- Worked on platform over 300ft in the air, resulted in creating designs that were compact and required minimal equipment. Designed the pre-commissioning of the flushing tubes, supervised set-up, and performed the work scope.
- Analysis of lubrication system oil to meet ISO-4406-1999 (level 14/11).
- Because client was so pleased with the work done, the result was more acquired work and doubling the budget of \$120,000 to \$300,000.

### Research Engineer | Algae Grow and Harvest

February 2012 – March 2014

- Managed several projects with three technicians in separate locations; managing their tasks and working at a pilot plant scale.
- Designed, budgeted, procured, and oversaw the installation of the pilot plants (up to \$50k).
- Detailed budgeting, expense tracking, and scheduling for the procurement of equipment from vendors and overseeing installation of the pilot plants.

#### Patent Application: Solid-Liquid Separation of Waste Water (PTC/CA2013/050460)

- The mechanism can separate, recover, and produce landfill solids, and water clean enough for reuse for oilsand waste and feedlot anaerobic digestate.

#### Other Experience:

- Casual Sessional Instructor in Carbon Capture/Storage at **Northern Alberta Institute of Technology** (2013).
- Teaching Assistant in Chemical Engineering Design Class at the University of Alberta (2010 – 2012).
- Quality Control Analytical Technician at Labatt Breweries of Canada (2008).

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## VOLUNTEER AND LEADERSHIP

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### Treasurer, University of Alberta 2022 Class Council

2018-Present

### Treasurer and Board Member – Edmonton Men's Health Collective

2017-Present

- EMHC is, a local, grassroots health organisation run for and by gay, bisexual, trans and queer men. I am responsible for overseeing our application for CRA charitable status. I focus on people's health including a website for PrEPAlberta.ca – information for HIV pre-exposure prophylaxis for prescribers and patients and University of Alberta family medical school resident training modules for LGBTQ2S health-related awareness.

### Volunteer and Host for Ugandan Swimmer – IGLA International LGBTQ+ Aquatics

2016

- I modified my work hours to volunteer at the IGLA 2016 championships. I handed out medals, assisted check-in, and was a water-polo deck volunteer). IGLA sponsored a team of Ugandan swimmers to attend and I volunteered to house one of the team members at my home. They couldn't afford food - it was humbling to give back.

### Vice-President – Chemical Engineering Student Society

2009-2010

- I was an executive member of ChESS, the ChESS grad committee, and the ChESS conference committee, which sent 14 delegates from the University of Alberta to the 8th World Conference in Montreal. As vice-president finance, was responsible for fundraising, event planning, and other budgetary considerations.

### President – Chemistry Students Association

2007 - 2009

- I partnered with a different University for them to meet minimum lab coat orders. We purchased and then resold them to students to raise \$10,000/yr.