

Ahmad Alkadri

CHEMICAL ENGINEER · MATHEMATICIAN

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Motivated, curious graduating Chemical Engineering and Mathematics student with a passion for research, problem-solving, and education. Experienced researcher and teaching assistant with an extensive background in engineering fundamentals.

Education

University of California, Berkeley

PHD IN CHEMICAL ENGINEERING

Berkeley, USA

Beginning Aug. 2019

University of Calgary

BSC IN CHEMICAL ENGINEERING WITH A BIOMEDICAL ENGINEERING SPECIALIZATION

- GPA: 3.94/4.00
- Internship Designation

Calgary, Canada

Sep. 2014 - May 2019

University of Calgary

BSC IN PURE MATHEMATICS AND APPLIED MATHEMATICS

- GPA: 3.97/4.00

Calgary, Canada

Sep. 2014 - May 2019

Skills

Initiative

Eager to meet new challenges and enthusiastic self-starter with an ability to see projects to completion

Team-Oriented

Collaborated with professional engineers to solve problems while fostering a creative research environment

Strong Communicator

Conducted literature reviews, published technical memos, and presented oral reports at meetings

Passion for Learning

Completed 61 courses in 4 years while maintaining superior academic standing and extracurricular balance

Software Proficiencies

Microsoft Office, MATLAB, Python, C++, VBA, and \LaTeX

Experience

University of Calgary

TEACHING ASSISTANT

- Hosted weekly tutorials and office hours to clarify concepts in calculus and linear algebra
- Graded weekly assignments and midterm exams in a consistent and timely manner

Calgary, Canada

Sep. 2018 - Apr. 2019

NOVA Chemicals

CHEMICAL ENGINEERING RESEARCH INTERN

- Applied chemical engineering principles to troubleshoot and optimize plant operations
- Developed process models using Aspen Plus, MATLAB, Python, and Microsoft Excel
- Collaborated with professional engineers and research scientists to solve theoretical problems in the areas of phase equilibrium and heat & mass transfer

Calgary, Canada

May. 2017 - Aug. 2018

University of Calgary Student Success Centre

TUTOR

- Communicated complex mathematical and engineering concepts in a coherent and comprehensible manner to improve the academic performance of students

Calgary, Canada

Sep. 2016 - Apr. 2017

Pharmaceutical Production Research Facility

RESEARCH INTERN

- Collaborated with graduate students and post-doctoral scholars to design experiments investigating the effect of various mechanical and chemical signals on stem cell differentiation
- Assisted in, and undertook a number of experiments to become well-versed in the fundamentals of bioprocessing, literature review, statistical analysis, and the scientific method
- Critically analyzed and clearly communicated findings by way of written and oral presentations at research conferences and lab meetings

Calgary, Canada

May. 2016 - Sep. 2016

Extracurricular Activities

AIChE UCalgary Student Chapter

Calgary, Canada

VICE PRESIDENT

Sep. 2018 - Apr. 2019

- Co-founded a chemical engineering club focused on diversifying work opportunities and technical exposure of chemical engineering undergraduates

Schulich Peer Mentorship Program

Calgary, Canada

PEER MENTOR

Sep. 2018 - Apr. 2019

- Advised first-year engineering students on study habits, work-life balance, and engineering discipline selection

Homes of Hope

Tijuana, Mexico

VOLUNTEER

Feb. 2017

- Assisted a group of around 30 peers at the Schulich School of Engineering to build a home over a two day period

Schulich Leadership Program

Calgary, Canada

MEMBER

Sep. 2016 - Apr. 2019

- Partook in both theory and activity-based leadership events to enhance team-building and management capabilities

Students Offering Support

Calgary, Canada

VOLUNTEER COURSE DEVELOPER & EXAM-AID INSTRUCTOR

Sep. 2015 - Apr. 2019

- Demonstrated problem-solving techniques and study strategies to student audiences of upwards of 50 individuals

Schulich Aerodesign Club

Calgary, Canada

MEMBER

Sep. 2014 - Apr. 2017

- Design and team construction of a radio-controlled aircraft for competition in the SAE Heavy Lift Competition in the United States

MSB United Soccer Team

Calgary, Canada

MIDFIELD PLAYER

Sep. 2011 - PRESENT

- Partakes in competitive soccer at the city and provincial level

Honours & Awards

- 2018 **Intern of Merit**
- 2017 **Wayne Hugo Memorial Scholarship**
- 2017 **25th Anniversary Scholarships in Mathematics and Statistics**
- 2016 **Louise McKinney Scholarship**
- 2016 **Alberta Innovates - Health Solutions Summer Research Studentship**
- 2016 **Fluor Canada Ltd. Scholarship**
- 2015 **TransAlta Memorial Scholarship**
- 2014 **University of Calgary President's Admission Scholarship**