# Kirtland McKenna

## **CONTACT INFORMATION**

ADDRESS: 11302 W 20th Ave, Denver, CO 80215 PHONE: +1 303 915 9173 EMAIL: kirt.mckenna@gmail.com

## Skills

Engineering:	Quality Assurance, System Design and Optimization,
	Project Development Cycle, Multi-Disciplinary Critical Thinking,
	Design of Experiment, Requirements Development, Data Analysis,
	Root Cause Analysis, Fault Tree Analysis, Finite Element Analysis (FEA)
Software:	MS Office, Python, C++, SQL, MATLAB, LabVIEW, AMPL, $ ot\!MT_{ m E}  m X$

#### WORK EXPERIENCE

Current	<ul> <li>Research Assistant at COLORADO SCHOOL OF MINES, Golden, CO</li> <li>Operations and design optimization of large and complex systems</li> <li>Instrumentation of mining equipment with NI CompactRIO</li> </ul>
2012 - 2015	<ul> <li>Systems Engineer at NATIONAL OILWELL VARCO, Houston, TX</li> <li>Research and development of artificial intelligence in drilling controls optimization.</li> <li>Developed optimization algorithms for dynamic environment machine learning</li> <li>Design and execute quality assurance, laboratory, factory acceptance, and field tests</li> <li>25% rotational work on-site during drilling operations</li> <li>High density data analysis</li> <li>Brokered inter-company Non-Disclosure Agreement</li> </ul>
SUMMER 2011	Summer Intern at NATIONAL OILWELL VARCO, HOUSTON, TX

## **EDUCATION**

August 2017	Master of Science MECHANICAL ENGINEERING, <b>Colorado School of Mines</b> GPA: 3.64/4.00   Advisor: Dr. Alexandra NEWMAN • Operations Research and Optimization of System Design
May 2012	<ul><li>Bachelors of Science PETROLEUM ENGINEERING, Colorado School of Mines</li><li>Adviser: Dr. Alfred EUSTES</li><li>Designed and operated underground coring experiments at the Edgar Mine.</li></ul>

## **PROFESSIONAL SOCIETY MEMBERSHIP**

American Society of Mechanical Engineers American Institute of Aeronautics and Astronautics Prognostics Health Management Society

## TRAINING AND CERTIFICATIONS

Engineering in Training (April 2012) Private Pilot Certificate