

# Benjamin L. Johnson

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CONTACT INFORMATION      14502 HWY 83      *Voice:* (956) 248-6020  
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SKILLS PROVIDED      Great analytical skills (including optimization, statistical, and programming capability) as well as a propensity and drive to solve complex problems.

EDUCATION      **Colorado School of Mines**      Golden, Colorado, USA  
Ph.D Operations Research with Engineering, In Progress  
Minor: Nuclear Engineering  
Research Focus: Nuclear Waste Disposal Optimization

M.S. Engineering and Technology Management, December 2012, GPA: 3.427  
Specialties: Operations Research, Management

B.S. Chemical and Biochemical Engineering, May 2011, GPA: 2.966  
Minors: Biological Engineering and Life Sciences, Economics and Business

RESEARCH EXPERIENCE      **Colorado School of Mines**      Golden, Colorado, USA

Graduate Research      January 2012 - Present  
Developed a generalized model to optimize nuclear waste disposal scheduling. Tailored the model for the Yucca Mountain Nuclear Waste Repository in Nevada. The goal is to determine the best method to minimize the time, cost, heat load, and radiation exposure to dispose of the waste.

Undergraduate Research      January 2010 - May 2011  
Fabricated microfluidic devices in the lab of Microintegrated Optics for Advanced Bioimaging and Control. The lab's goal is to develop portable health care devices using microfluidic systems and integrated optics.

WORK EXPERIENCE      **Mercury Intelligence Systems**      **Data Scientist Intern**      June 2014 - August 2014  
Developed and implemented (in Java) the user behavior model in MIS's Informer software. The model uses machine learning principles to create a profile for each user in a company and then analyze the user's current behavior to detect anomalies. The goal is to identify insider threat behavior within an organization by analyzing real time data.

Colorado School of Mines      **Java Application Developer**      January 2014 - May 2014  
Developed a Java application for the National Renewable Energy Laboratory to obtain weather data from any major airport in the world for any period of time between 1945 and the present. The application is used in several colleagues' Ph.D research to determine the optimal design and dispatch of hybrid power generation systems for remote locations.

Colorado School of Mines      **Data Analyst**      August 2013 - May 2014  
Assisted the US Army in data collection and analysis of military strength (active and reserve) for each country involved in the major conflicts between 1950 and 2013. The data is used in a colleague's Ph.D research for counterinsurgency modeling.

COMPUTER SKILLS      - AMPL, GAMS, R, MatLab  
- C++, Java, Visual Basic  
- LaTeX, Microsoft Office, OpenOffice  
- Windows, Linux, OS X