

# ERIN KUNKEL, E.I.T.

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## EDUCATION

**Colorado School of Mines** Golden, CO  
Bachelor of Science, Environmental Engineering

May 11, 2013  
GPA: 2.87

## PROFESSIONAL ENGINEERING EXPERIENCE

### **IMERYS World Minerals, Lompoc, CA**

Summer 2011

Celite Mine Environmental Intern

- Gained experience adhering to regulatory requirements leading to site-wide environmental health, compliance and safety. Worked toward understanding air compliance and interpretation of the Clean Air Act (CAA).
- Researched Title V emissions requirements and gathered historic emissions inventory data. Per CAA regulations in California, researched the ability to drop below Title V permit status.
- Recorded and interpreted previous year's air emissions per BACT requirements and NESHAP standards.
- Participated in site wide inspections including hazardous waste storage, satellite accumulation areas, and chemical processing facility per RCRA hazardous waste regulations.
- Participated in storm water discharge inspections and erosion management
- Participated in internal EHS site inspections for RCRA compliance and prior to MSHA quality inspections.

## CAMPUS EXPERIENCE

### **Colorado School of Mines Registrar's Office, Golden, CO**

2008-2011

Student Employee

- Organized and filed student records and submitted completed paperwork in online system for undergraduates.
- Assisted students and faculty with completing proper forms and other registration issues throughout the year.

## PROJECT ENGINEERING EXPERIENCE

### **Senior Design: Clear Creek County's Mining Feasibility Study**

2012-2013

- Lead a consulting team of multi-disciplinary engineering students tasked with conducting gold mining feasibility study based on Clear Creek County's 1041 permit.
- Provided environmental assessment regarding land access as well as viability of surveying done in close proximity to housing developments (completed in approximate 1041 permit format).

### **Mining and the Environment**

Spring 2013

- Graduate level course that emphasized the environmental impacts from mine site development, extraction, and closure.
- Determined environmental impacts of mining processes for metal and coal mining above and below ground.
- Some topics included the extraction of gold using cyanide and mercury processes, post mine site closure, metal toxicity, remedial actions, air pollution, and effects of acid rock drainage.

### **Environmental Summer Field Session**

Summer 2011

- Designed around field research and group projects concerning remediation and wastewater treatment.
- Remediation Consultation- successfully led a consulting investigation of an orphaned mine-site in Idaho Springs, CO.
- Conducted soil sampling for abandoned rock piles and surrounding deposits.
- Provided contamination characterization for tailings pile leading to recommended remediation process.
- Conducted water pilot testing on samples and performed recommended water treatment analysis.

## ENGINEERING SKILLS

- **EPA Regulatory Compliance:** Interpretation and application of CAA, CERCLA, CWA, SDWA, TSCA and RCRA.
- **Additional Environmental Skills:** knowledge of solid and hazardous waste management, contaminant transport, environmental audits, pollution prevention, sampling techniques and remedial technologies.
- **Computer Skills:** Microsoft Word, Excel, PowerPoint, Project, SolidWorks, MathCAD, LabView, C++, Computer-aided engineering, multidisciplinary experimentation and instrumentation.
- **Laboratory Skills:** Safety measures, chemical preparation, titrations, and documentation.
- **Other Skills:** Excellent oral communication, team player, technical writing, organized, and problem-solver.
- **Passed Colorado FE Examination:** Fall 2012