

ZACHARY ARMISTEAD COVENTRY, M.ENG.

660 S. Clay St. | Denver, CO 80219 | 720.509.9268 | zcoventry@gmail.com

Civil Engineering Project Manager | Scrum Product Owner
English/Spanish Bilingual | LEED BD+C Accredited Professional | International Cyclist
Pragmatic Programmer | Industrial Ecologist

EXPERIENCE

ASEC, Inc. – Power Transmission Project Manager

Lakewood, CO

February 2019 – Present

[Major California Public Utility] Corrective Maintenance Program Project Manager

- Introduced Agile Project Management principles to the company
- Lead point of contact to major California power utility representing >\$2MM in annual revenue
- Balance scope, schedule, and budget requirements for >200 power transmission design projects
- Manage work priorities for the CMP engineering design team (~8 engineers)

Internal Software Development Team Lead/Mentor

- Created ASEC's first internal software development team
- Fostered the adoption of the Agile mindset and methods
- Scrum product owner
- Used Thomas & Hunt's The Pragmatic Programmer for training and team development

GeoShack – Machine Control Sales Consultant

Denver, CO

September 2018 – November 2018

- Provided 3-D Machine Control sales and consulting services to dirt work and paving contractors

Concrete Curb & Paving – Vice President

Littleton, CO

January 2018 – August 2018

Business Development

- Doubled value of secured contracts over 2017 revenue
- Increased client base by 50% over 2017 baseline

Field Operations Manager

- Managed field operations for three concrete flatwork crews (43 people)
- Represented the company at client and construction meetings
- Responded to customer complaints and quality issues within one business day

National Renewable Energy Laboratory / LAC Federal

Graduate Intern / Senior Technical Information Specialist

Golden, CO

November 2013 – December 2017

Federal LCA Data Commons Developer & Coordinator

November 2014 – December 2017

- Used multiple GitHub repositories to implement a digital content management system architecture
- Used SQL scripts to reduce data curation time requirements from weeks to days
- Coordinated the Federal Life Cycle Assessment Data Commons across seven Federal agencies

U.S. Life Cycle Inventory Database Technical Lead

September 2014 – December 2017

- Introduced agile mindset and methods to U.S. Life Cycle Inventory Database team
- Used multiple GitHub repositories to implement a digital content management system architecture
- Managed update to the U.S. Life Cycle Inventory Database – 54 new industrial processes

Graduate Intern

November 2013 – September 2014

- Used openLCA software to build 45 life cycle inventory processes for coal production

Green Building II Seminar – Project Manager

Denver, CO

January 2015 – June 2015

- Project manager to develop a 140 page [Preliminary Scorecard](#) for a \$31.9 million LEED BD+C project
- Authored sections: Advanced Energy Metering; Renewable Energy Production
Green Power & Carbon Offsets; Low-Emitting Materials; and Indoor Air Quality Assessment

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EcoNest Company – Natural Building Apprentice

Ashland, OR

July 2014 – August 2014

- Apprenticeship conducted by Robert Laporte (master builder) and Paula Baker-Laporte (AIA Fellow)
- Crew member for the construction of a 1000 ft² timber frame structure from stem walls to roof
- Produced an [amateur video](#) synopsisizing my experience and my photos were [published in a book](#)

Center for Sustainable Infrastructure Systems – IGERT Fellow

Denver, CO

August 2010 – August 2014

- Founding member of the Food Systems Research Group
- Identified >10% potential energy savings (> \$200,000/yr) for Littleton/Englewood Waste Water Treatment Plant

Coventry Financial Group – Accounts Receivable Manager

Denver, CO

May 2009 – May 2013

- Built and managed an accounts receivable database using EasyACCT
- Tracked >600 clients and >\$300,000 in annual revenues

Iglesia Bautista Santa Teresa – Logistics Coordinator

Ciudad Juárez, México

August 2009 – August 2010

- Coordinated more than 100 meetings and weekly cross-border transport
- Guided an exploratory research trip over 300 miles into the interior of Mexico

United States Peace Corps – Sustainable Agriculture Specialist

Mindo, Ecuador

February 2007 – March 2009

- Supervised construction of new chicken facility (>1350 ft²)
- Trained and managed two full time employees and up to eight seasonal laborers
- Created an internship program for ten high school seniors

Texas A&M University – Student Body President

College Station, TX

April 2002 – April 2003

- Operated as programming lead for four major university events with a budget of over \$70,000
- Spoke at more than 100 university events and interfaced with the media on a weekly basis

SELECTED PUBLICATIONS AND PRESENTATIONS

Arbuckle, P., Kahn E., **Coventry, Z.**, and Carpenter, A. (October 2017). A Coordinated Approach to Improve LCA Data Publication in the USLCI and LCA Commons. Presented at the LCA XVII Conference. American Center for Life Cycle Assessment.

Coventry, Z.A., Tize, R. & Karunanithi, A.T. (2016). "Comparative Life Cycle Assessment of Solid Waste Management Strategies." *Clean Technologies and Environmental Policy*. 18: 1515. <https://doi.org/10.1007/s10098-015-1086-7>

Coventry, Z. A., Tize, R., and Karunanithi, A. (2012). "Sustainability Assessment of Waste to Energy Technologies." *Proceedings of the 22nd European Symposium on Computer Aided Process Engineering (ESCAPE 22)*. Institution of Chemical Engineers (IChemE). London, UK.

EDUCATION

University of Colorado Denver – M.Eng. of Civil/Environmental Engineering

Denver, CO

Fall 2010 – Spring 2015 | GPA = 3.77/4.0

Texas A&M University – Graduate Certificate in International Affairs

College Station, TX

Fall 2005 – Spring 2006 | GPA = 4.0/4.0

East China Normal University – Mandarin Chinese Language Study

Shanghai, China

July 2004 – January 2005

Texas A&M University – B.S. in agricultural development & Business Minor

College Station, TX

Fall 1998 – Spring 2003 | GPA = 3.41/4.00