

# Ezra Tucker

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## EDUCATION

### STANFORD UNIVERSITY

#### MS IN CIVIL & ENVIRONMENTAL ENGINEERING

Sept 2010 - Jun 2011 | Stanford, CA  
GPA 3.79

### CARLETON COLLEGE

#### BA IN PHYSICS

Sept 2006 - Jun 2010 | Northfield, MN  
GPA 3.65 | magna cum laude

## COURSES & RESEARCH

### GRADUATE

Focus on atmosphere and energy, renewable energy technologies, distributed generation, energy efficient building design, and air pollution.

*Thesis: Stanford Solar Water Heating Installation Project Characterization*

### UNDERGRADUATE

Liberal arts education emphasizing math and physics.

#### Research:

*LIGO: Dead Channel Monitor development*

Designed, coded and tested monitor to detect malfunctioning environmental sensors

*Virgo: PQ Veto*

Created veto to filter possible gravity wave events

#### Publications:

Abadie *et al.*, Phys. Rev. D **85** 082002 (2012). "Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3"

## WEB LINKS

Web | [land|tucker](#)

Github | [minimenchmuncher](#)

github.io | [minimenchmuncher](#)

LinkedIn | [ezztucker](#)

## EXPERIENCE

### XCEL ENERGY | ANALYST, RESOURCE PLANNING

Nov 2016 - Present | Denver, CO

- Assisting in the management of the 2017 All-Source Solicitation
- Facilitating Company/bidder communications throughout Solicitation process
- Authoring novel strategies for utility ownership of renewable generators
- Analyzing solar production in various regions within of Colorado
- Investigating transmission congestion trends in the San Luis Valley
- Developed wind resource model for southern Colorado
- Assisted in developing project plan for the 2017 All-Source Solicitation

### ALTENEX LLC | SENIOR ENGINEER, DATA & ANALYTICS

Oct 2011 - Nov 2016 | Boston, MA

- Designed novel strategies for identifying top performing renewable energy assets
- Coordinated with Client Services team to deliver customer driven analyses
- Designed and maintained wind and solar resource and production models
- Developed CRM for renewable energy marketplace participants
- Assessed financial risks of wholesale renewable energy purchases
- Integrated analytical techniques into production analytics framework

### CAMBRIDGE COACHING | TUTOR

June 2015 - Nov 2016 | Greater Boston area

- Tutored in high school and college-level calculus, physics, and chemistry

## CERTIFICATES

### DATA SCIENCE SPECIALIZATION | COURSERA/JOHNS HOPKINS

Completed Jul 2017

- Subjects covered include statistics inference, regression models, machine learning, and analysis reporting
- Gained expertise and experience with modern analytical techniques

## SKILLS

### ANALYTICS & PROGRAMMING

- R | Python | GIS (ArcGIS & QGIS) | MS Excel
- C# | VBA (Excel & Access) | C/C++

### INFORMATION TECHNOLOGY

- MacOS | Windows 10/2012 | Linux (Debian, Arch; bash, zsh)
- PostgreSQL | MS SQL (SQL Server 2014) | SQLite | MS Access | Dynamics CRM

### OTHER

- Adobe Photoshop | Adobe Lightroom
- $\LaTeX$  | Git | Sharepoint (2007 & 2016)