

# Campbell “Mac” Tilt, P.E., CEM

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## Objective

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Professional Engineer looking to apply my passion for energy efficiency and conservation to a career that will have a direct impact on the future of our environment and our community in Southwestern Colorado.

## Experience

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### Conservation Benchmarks, LLC., Partner

2014-Present

Founding principal of Conservation Benchmarks, LLC. Perform all functions of an energy efficiency consultant as a partner in an engineering consulting LLC. Our firm is listed as a Green Service Provider through EcoAction Partners in Telluride, Colorado and has been based in Telluride since September 2015. Projects to date have included:

- Conducted energy audits for eleven Ritz-Carlton Luxury Hotels nationwide: Generated a prioritized list of efficiency projects, explained the energy and financial impact of each project to management, and assisted with project implementation including enhanced implementation assistance and building recommissioning. This project required sensitivity to deeply ingrained corporate politics and required a nuanced approach to build trust with each local facilities team.
- Completed recommissioning for the Colorado headquarters of Jeppesen and Level 3 Communications: Completed energy and cost savings calculations. Assisted the customer with program specifics and filled out forms required to receive a utility rebate.

### Nexant, Inc., Project Engineer

2009-2014

Delivered engineering consulting services for utility companies and private industry, including, but not limited to: building energy audits, commissioning (Cx) and recommissioning (RCx), utility scale energy efficiency potential studies, measurement & verification, and third-party consultation for the Colorado Energy Office (CEO) energy performance contract program in the State of Colorado. Self-directed project management was paramount at Nexant. It was my responsibility to manage my workload and deliver a consistent product to each of our clients in a timely fashion. Other responsibilities included:

- Supported the CEO's Energy Performance Contracting Program (EPC) on dozens of projects, statewide. Services included presenting program material to clients, performing technical calculations and contractual reviews, and oversight of the EPC process, as a neutral CEO representative, from beginning to end. Assisted clients in navigating, negotiating, and executing a complicated contracting, financing, and construction process. This project required excellent organization and incredible attention to detail in order to deliver quality third-party technical oversight of EPC projects.
- Nexant served as the primary energy efficiency program implementer for Platte River Power Authority (PRPA) and Xcel Energy's Colorado Service Territory. I was able to seamlessly transition between roles as an energy auditor for Xcel Energy and an ambassador for PRPA's efficiency programs in order to represent the utility in an engaging and professional manner when meeting with their customers.
- Conducted building energy audits and measurement & verification on hundreds of facilities, which included identification of energy efficiency opportunities and verification of proper installation of measures for Xcel Energy.
- Performed building Cx and RCx to optimize building control and ensure efficient system operation. Through direct oversight of contractors our team was able to ensure quality equipment installation and in one circumstance had to lead the general contractor and his sub-contractors to a favorable outcome when we diagnosed incorrect installation of large rooftop packaged cooling units.
- Maintained a working understanding of state and federal energy regulations and rebates and clearly communicated these policies and programs to customers.
- Executed energy efficiency potential studies including site surveys and Excel-based forecast models for clients including Tri-State Generation and Transmission Association and NorthWestern Energy.
- Supervised engineering interns, managed their workload, and facilitated their field training.
- Developed budgets and timelines for new projects and generated content for proposals.

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## Certifications

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### Professional Engineer 2014

Professional Engineering license held in Mechanical Engineering

### Certified Energy Manager 2012

A certified energy manager is qualified to manage the utility expenses of a building and execute the engineering and financial elements of energy efficiency projects.

## Education

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### University of Colorado, Boulder 2005-2009

School of Engineering and Applied Mathematics, BS in Architectural Engineering, Emphasis in Architectural Illumination

## Accolades

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### Eagle Scout 2005

## Utilities and Customers Served

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### Energy Auditing:

- Xcel Energy, Onsite Energy Assessment Program 2009-2014
- Fort Collins Utilities, Facility Assessment Program 2013-2014
- Ritz-Carlton Luxury Hotels Nationwide, Snapshot Energy Audits 2015

### Recommissioning:

- Jeppesen Denver Headquarters 2015-2016
- Level 3 Communications Headquarters 2016
- Xcel Energy RCx Program - FAA Denver Flight Standards District Offices 2014
- Salt River Project Arizona Utility - Recommissioning Studies 2012-2015

### Commissioning:

- Xcel Energy – Carlsbad, New Mexico Operations Center 2014
- Poudre Valley Hospital – Fort Collins, Colorado 2014

### Utility Program Evaluations and Potential Studies:

- NorthWestern Energy – Montana Utility 2009-2010
- Ontario Power Authority – Ontario, Canada Power Authority 2013-2014
- Ameren – Illinois Utility 2009-2010
- Pennsylvania Public Utilities Commission 2012-2014
- Tri-State Generation and Transmission Association – Colorado Utility 2010-2011

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## References

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*Available Upon Request*

## Client Testimonials

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### **Regarding Third-Party Consultation to the Colorado Energy Office:**

“As it shows below, I am the Sustainability Manager for Douglas County School District. For our EPC projects, I was the primary contact for the RFP and review phase, and for the "2 ESCOs, who do we go with" phase. While our District may have created more work for Mac with this approach, he worked very well with us and provided some great feedback and support. His patience and knowledge helped a great deal. Also, he totally accepted that I am a "data and math nut". That drives many support people a bit crazy. He took it in stride well, and did a great job on all counts.

I was in the business world for a couple of decades before I came over to the education field. You have a great team member that I believe will help any District with whom he works. Thank you for providing this kind of support for we school district employees! It was great to have an extra brain (well trained I might add!) to bounce things off of and get guidance from.

We are now up and running very smoothly with McKinstry as our ESCO partner, and the project is cooking along!  
*- Lee Smit, Sustainability Manager, Douglas County School District*”