

## Robert M. McCaughern, EIT

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### **Education**



Drexel University, Philadelphia PA

Bachelor of Engineering in Mechanical Engineering, June 2006

Certificate of Engineering Management, June 2007

Eligible for PE Licensing in CA

### **Undergraduate Coursework:**

- *Fluid Mechanics*
- *Experimental Mechanics*
- *Mechanics of Materials*
- *Statics*
- *Dynamics*
- *Thermodynamic Analysis I & II*
- *Refrigeration and Air Conditioning I & II*
- *Feedback of Dynamic Control Systems*
- *Mechanics of Vibrations*
- *Thermal System Design*
- *Heat Transfer*
- *Manufacturing Process*
- *Microeconomics I*
- *Introduction to Engineering Management*
- *Engineering Economical Analysis*
- *Internal Combustion Engines*
- *Fundamentals of Computer Aided Design (CAD)*
- *Energy I & II*
- *Systems of Differential Equations I & II*
- *Material Science I & II*
- *Linear Modeling for Engineers*
- *Technology: a Historical Perspective*
- *Linear Algebra*
- *Technical Communication*
- *Financial Accounting*
- *Engineering Ethics*

### **Graduate Coursework:**

- *Engineering Management I*
- *Technical Communication*
- *Economics for Engineering Management I*
- *Financial Management I*

### **Academic Achievements:**

#### **Senior Design Project: MultiZone Residential HVAC Design Study (Team Leader):**

Through a series of building simulations we were able to optimize hvac design based upon energy savings. Typical floor plans of various sizes and zoning plans were studied for the most effective HVAC system.

**The Drexel Experience: Inner-city Tutoring & Teaching:** Conducted visits to inner-city Philadelphia public elementary school to teach and tutor basic math & science.

**Temporary Substitute Teaching: West Chester East High School (Computer Programming I):** Instructed computer programming during a period of medical leave for the primary instructor.