

WILLIAM R. CARUSO

Resume

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PROFILE

Young and dynamic **engineer-in-training** with a unique skill set adapted from a diverse background of educational and professional experiences. Self-managing and comfortable in environments with undefined problems bounded by time and budget constraints. Excellent communicator with a wide spectrum of audiences and work scopes. Interested in project-oriented design and engineering in the **energy** and **sustainable development** arena with an emerging interest and sleight in entrepreneurship.

EXPERIENCE

Systems Engineer, Feed Resource Recovery Inc.

Boston, MA 2.2008-2.2009

- Second employee hired at a waste-to-energy solutions start-up company
- Conducted research on anaerobic digestion industry through literature, facility tours, industry conferences and through establishing relationships with vendors and industry professionals
- Collaborated with biologist and lead engineer to design, fabricate and operate prototype system within \$50k budget constraint
- Co-managed engineering firm in design and construction of a \$500k alpha system based on proprietary integration of technology
- Managed alpha system operations and experimentation. Recorded, analyzed and reported data; presented to corporate customers
- Communicated with vendors and industry professionals to produce system architecture document for planned \$18M full scale facility
- Participated in business development meetings, customer relations and development of company core values
- Identified internal communication shortcomings and instituted company intranet utilizing wiki-, blog and twitter style tools
- Participated in interviewing, evaluating, hiring and managing new employees

Design Engineer, Design Communications Ltd.

Boston, MA 8.2007-2.2008

- Collaborated with project managers, fabricators, installers and vendors as engineer for signage projects ranging \$150k-250k
- Provided AutoCAD 2D/3D shop drawings with attention to design for fabrication and installation; and meeting local structural safety, UL, and NEC codes

EDUCATION

Worcester Polytechnic Institute

Worcester, MA 2007

Bachelor of Science in Mechanical Engineering, Concentration in Design
Graduated with Distinction, GPA: 3.41

PROJECTS

Razor Drop Testing Device, Gillette Inc.

Worcester, MA 5.2007

- Collaborated with 20 member team and lead engineer to produce a system to repeatably drop, measure and record impact forces on Gillette's full line of razors within \$10k budget
- System designed, fabricated, tested and presented to Gillette within 7-week deadline

High-Speed Bottle Laner, E&J Gallo Wineries

Modesto, CA 3.2007

- Collaborated with Gallo engineers and vendors to design, prototype and test mechanism for use on full-scale production lines
- Managed project from definition, conceptual through detailed design, fabrication, testing and cost/benefit analysis within \$15k budget
- Utilized complex cam design, servo motion control and rapid prototyping

Clean Energy Research, Merton Dept. of Environment and Regeneration

London, England 5.2006

- Conducted research on clean energy technology for the Chief Environment Officer and Oxford University
- Presented tools and recommendations to Merton policy makers for integration of technologies with existing urban infrastructure

SKILLS | CERTIFICATIONS

Engineer-in-Training Certification Boston, 4.2009

CAD/computer: AutoCAD, MS/Mac, MathCAD, ProE, LabView, MS Visio, SolidWorks, GE Fanuc SCADA

Fab: Stick/MIG welding, plumbing, PLC programming, electrical (1/3 Ø), basic electromechanical systems

Personal: Music Composition (piano and guitar), Surfing, Snowboarding, Mtn. Biking, Hiking, Yoga, Cooking