Padmabhushana R. Desam

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Education

Massachusetts Institute of Technology, Cambridge, MA

School of Engineering and Sloan School of Management

Master of Science in Engineering and Management

System Design and Management Fellow

2013(expected)

The University of Utah, Salt Lake City, UT

Doctor of Philosophy, Mechanical Engineering

2005

John Zink award for outstanding academic achievement

National Institute of Technology, Warangal, India

Bachelor of Technology, Mechanical Engineering

1998

Professional Experience

Ubiquitous Energy, Cambridge, MA

Strategic Planning & Business Development

Summer 2012

- Evaluated commercial building-integrated photovoltaics (BIPV) and mobile electronics markets and developed strategies for integrating transparent photovoltaics
- Identified potential market opportunities in mobile electronics, conducted economic analysis, and developed business models and solutions for profitability
- Contributed significantly to a \$5.5M ARPA-E proposal in commercializing BIPV by developing a cost model for production, modeling and optimizing LCOE, and calculating payback periods for investors

The Babcock & Wilcox Company, Barberton, OH

Lead Engineer

2006-2011

- Analyzed potential business opportunities in wind energy that could generate \$100M in revenues and made recommendations to senior management for strategic acquisition of operations and maintenance companies
- Developed innovative low-emission technologies and products for biomass combustion in power generation, which could save \$1M annually in operating expenses for customers
- Led collaborative efforts with Penn State University in conducting research on biomass, which resulted in an innovative low-emission combustion technology
- Improved existing new product development process with a robust fuzzy front end analysis

CD-adapco, Tulsa, OK

Senior Consulting Engineer

2005-2006

- Delivered novel combustion solutions for customers in power generation and chemical processing industries
- Collaborated with account and business development managers in maintaining key accounts worth \$5M by providing customized solutions

ZPM Inc., Santa Barbara, CA

Modeling Engineer

2000-2001

- Developed a revolutionary separation technology for industrial wastewater treatment, which generated two patents for ZPM
- Designed and validated bubble separation tanks with applications in water treatment

Software Skills

Microsoft Office, System Advisor Model, @Risk, TreeAge, Vensim (System dynamics)

Professional Organizations & Activities

• Member of the MIT Energy conference organizing committee

2011-2012

• Active member of the MIT Energy and Sloan Energy clubs

2011-2012