

David B. Ray

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Education:

MS Statistics

Texas A&M University, College Station, Texas

Aug 2021

GPA 3.55 / 4.00

MS Manufacturing Management

Kettering University, Flint, Michigan

May 1993

GPA 3.73 / 4.00

B.S. Mechanical Engineering Technology, *cum laude*

Purdue University, West Lafayette, Indiana

Dec 1987

GPA 5.57 / 6.00

Teaching and Advising:

Adjunct Professor

2018-present

Department of Engineering, Grace College and Seminary

- Started in 2018 as a volunteer professor teaching Measurement Systems Analysis
- Expanded my teaching in 2020 to teach Six Sigma Green Belt as part of Advanced Manufacturing Class
- The Green Belt class adapted problem solving / statistical data analysis techniques taught in industry to give Grace students a competitive advantage compared to many other universities, as this is not always taught.

Six Sigma Director

2011-present

Operational Excellence Organization, Zimmer Biomet

- Instructed various Yellow Belt, Green Belt, Black Belt and Statistical Methods courses internally at Zimmer Biomet. These courses teach problem solving and data analysis techniques to Zimmer Biomet employees.
- Developed various courses in Six Sigma Green Belt, Black Belt, and Statistical Techniques courses to make them more relevant to current industry practices.
- Lead and coach high impact projects as required.

Lean Six Sigma Program Manager

2005-2011

Motorola University, Motorola, Inc.

- Certified instructors for teaching various Quality Tools and Lean Six Sigma courses
- Instructed various Green Belt and Black Belt courses
- Developed/modified over 30 courses taught at Motorola University / 17000 attendees

Six Sigma Master Black Belt

2001-2005

Continuous Improvement Group, Delphi Electronics and Safety

- Part of a team that developed a global problem solving course and process
- Taught various problem solving, Green Belt, and Black Belt courses

Research Experience:

Global Subject Matter Expert, Statistics

2011-present

Operational Excellence Organization, Zimmer Biomet

- Wrote several hundred memos that involved applying advanced statistical techniques. Many of these involved techniques not previously used at Zimmer Biomet. Some required extensive research in order to correctly apply statistical principles and rationale to known standards or to similar applications.
- Wrote various statistical rationales in support of justifying quality hold decisions or in support of FDA and other regulatory body submissions.
- Responsible for updating global procedures linked to known standards

Professional Experience:

Six Sigma Director

2011-present

Operational Excellence Organization, Zimmer Biomet

- Responsible for the Operational Excellence function and execution of all programs and initiatives to help build a culture of Six Sigma / problem solving principles globally and that are aligned to key strategic goals.
- Manage 5 engineers that are trained in Six Sigma principles and are currently working full time on high impact projects

Lean Six Sigma Program Manager

2005-2011

Motorola University, Motorola, Inc.

- Led the Quality and Lean Six Sigma Governance team, consisting of key Lean Six Sigma leaders in the organization, who set Lean Six Sigma and quality strategy for Motorola in policy, systems, and education
- Managed quality learning portfolio and curriculum for application to Motorola worldwide including sites in Asia (China), Latin America (Brazil), Europe (U.K.), Middle East (Israel), India, and North America (Illinois, Florida, Pennsylvania, Mexico).

Six Sigma Master Black Belt

2001-2005

Continuous Improvement Group, Delphi Electronics and Safety

- Led and coached projects as a Master Black Belt with over \$5 million in savings
- Selected top projects and candidates aligned to business needs
- Recognized for 2 Engineering Leadership Awards

Manufacturing Engineer / Manager

1989-2001

Continuous Improvement Group, Delphi Electronics and Safety

- Made extensive quality / cost improvements applying problem solving techniques
- Work assignments progressed from engineer to manager in both engineering and production

Manufacturing Engineer

1987-1989

Transmission Systems, Borg Warner

- Purchased new equipment for quality improvement and warranty reduction
- Solved various quality problems in a gear manufacturing environment

Training and Certifications:

Six Sigma Master Black Belt – Certified both at Delphi and Motorola
Six Sigma Black Belt – Certified both at Delphi and Motorola
Minitab Statistical Software
Certified Statistical Analysis System (SAS) Base Programmer
R Software
Python Software
Motorola Leading Six Sigma Training
Motorola Advanced Decision Making Training
Motorola Change Management Framework Training
Motorola Business Development Training
Motorola Leadership Jumpstart Training
Lean Manufacturing Training / Seminars
Delphi Statistical Quality Courses (5 classes)
Shainin Red X Statistical Problem Solving
Robust Engineering Training
Product Development Process
Basic Ergonomics
Motorola Benchmarking
Industrial Engineering Methods
ISO9000 / QS9000
Various Surface Mount Technology Equipment Specific Training
Crystal Ball Monte Carlo Simulation Software
Articulate eLearning Authoring Software
MS Office Applications

Current Service at Winona Lake Grace Church:

- Elder
- Lead security team
- Co-Lead Small Group
- Co-Lead First Impressions Team
- Lead games on Wednesday night SPLASH (kids program)