

# James Thornburgh Resume & Qualifications

Contributed by  
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Education & Certifications  
 CSU Fresno Industrial Technology, M.S. (Honors) 05/2004  
 CSU Fresno Industrial Technology-  
 CAD/CAM Systems Management, B.S. (Magna Cum Laude) 12/2002  
 Sierra College CAD Specialist Mechanical/Electrical  
 Concentration, A.S. (Honors) 06/2000  
 Sierra College Mechanical Design, A.A. (Honors) 12/1999  
 Sierra College Civil Design  
 Drafting Technician, A.A. (Honors) 12/1999  
 Cerro Coso Certificate in Online Teaching 06/2006  
 SolidWorks Certified  
 SolidWorks Associate (CSWA) 12/2010

## My College Courses

Drafting Professor 08/09  
 Devry University Instructor, ECT Department 07/07-12/07  
 ITT Technical Institute Instructor,  
 CDD, ECT, IT Departments 06/07-8/09  
 Fresno City College Instructor, CIT Department 08/05-8/09  
 Sportsmobile  
 West Engineering/Procurement Manager 06/04-11/05  
 Neo Dominion Operations Manager/ Business Startup 01/04-  
 03/04  
 BSK Associates CAD Manager/ Database Manager/ Network Administrator 05/02-12/03  
 Kenyon Drafting and  
 Design Drafting Consultant 12/01-03/02  
 Harris Manufacturing CNC Programmer 01/01-01/02  
 Wess Iccgnogle Drafting  
 Consultant 11/00-06/01  
 Prison Industry Authority Engineering Assistant/ Asst Network Administrator 03/98-01/01  
 Placer  
 School For Adults Instructor 01/00-11/00  
 Sierra College Drafting Lab Assistant 01/98-06/00  
 MJM Engineering Consultant Civil  
 Drafter 09/98-09/99  
 Skyline Silversmiths Computer Engraver Operator/Programmer 03/97-03/98  
 Summary of Qualifications

## Teaching Experience

## Work Experience

## Merced College

## Industrial Engineering & QC

- Lean Manufacturing & Six Sigma
- Process Refinement
- Cycle Time Reduction
- ERP Design & Implementation
- Industrial Robotics
- Workflow Improvements
- Process Flowcharts
- Facility Layout
- Ergonomics
- Inspection Conforming to GD&T
- Statistical Process Control

## Management

- Application of Operations Management Concepts
- Oversee Prototyping & Production
- Set project schedules
- Estimate product cost
- Procurement (Kan Ban, JIT, MRP)
- Vendor Negotiations
- OSHA Data Tracking
- Report Generation

## Procurement & Inventory Control

- Oversee \$45K/Week Purchasing Budget
- Calculate EOQ & Safety Stock Levels
- BOM Creation
- Vendor Negotiations
- Incoming Product Inspection
- Oversee Yearly Inventory Counts

## Mechanical Design

- Reverse engineering
- Design for Manufacturability
- Design and layout of wood, Plastic Injection Molded, Machined, and formed Sheet Metal products
- Use of Industrial Adhesives

- Design modular office systems
- Create 3D models in AutoCAD, SolidWorks, and Mechanical Desktop
- Create 2D working drawings for shop
- Manage Engineering Change Notices & Requests

#### Computer Hardware & Networking

- Design and build systems for home and business
- Troubleshoot hardware problems
- Maintain & Administer, NT & Novell Networks
- Design and administer project databases
- Maintain computer based phone system
- CISCO Training Courses 1&2

#### Visual & Multimedia Communications

- 3D Modeling, Rendering, & Animation
- Web Design
- Video Editing
- Sound Engineering

#### Shopwork

- Program and run CNC and manual machine tools
- Program CNC Laser and Punch Press
- Program, run, and maintain CNC Engraver

#### Civil Engineering

- Oversee Surveying
- Draw Subdivision maps including Road sections
- Create site maps
- Monitor and keep records of environmental cleanup
- Phase 1 report research & figure preparation
- Administer client info and upkeep of Geotracker data Teaching

#### My Teaching Philosophy

- Develop curriculum
- Maintaining and updating course syllabi
- Implementing evaluation devices of student learning to measure progress and competency
- Evaluating student competence based on program philosophy and objectives
- Preparing student progress reports and grade reports
- Maintaining accurate and timely attendance records
- Attending faculty meetings
- Lecture in IT & CAD fields of Study
- Oversee lab time
- Give presentations and assist with training days for high school teachers
- Design step-by-step instruction handouts
- Teach using hybrid and online methodologies facilitated by:
  - Site created in FrontPage
  - Blackboard
  - Moodle
- Proprietary Software Software Experience SinceMicrosoft OfficeWord, Excel, Access, Powerpoint, Project, Publisher, Frontpage, Visio1990CAD Programs AutoCAD, SolidWorks, Pro Engineer, CADKey, IBMCAD, Inventor1994GraphicsAdobe Photoshop, Adobe Premier, Adobe Acrobat, Adobe Captivate, CorelDraw, 3D Studio Max, Autodesk Viz, Flash1995CAM ProgramsSmartCAM, Sigmanest, MasterCAM, CAMWorks1997Other ProgramsLotus, Wordperfect, Dreamweaver, Netware, Groupwise, and may others.Awards and Affiliations
  - Sierra College Design Drafting Student of the Year (1997-1998)
  - President's Honor Roll (Six Semesters)
  - Golden Key International Honor Society
  - Epsilon Pi Tau (Vice President, Secretary, Webmaster)
  - National Association of Industrial Technology
  - American Design Drafting Association
  - Dean's Medalist Nominee (CSUF, 2002-2003)
  - Outstanding Undergraduate student of the year for IT (CSUF, 2002-2003)
  - Lisp Routine Published August 2001 in CADALYST Magazine Professional Organizations
  - U.S. Green Building Council's, Northern California Chapter Local Organizations

- Scottish Society of Central California, Webmaster 7/2007-Current Volunteer Experience
- University Vineyard Sound Team and Video Team Leader 01/01-05/04
- CART (Clovis) Guest Lecturer 11/02
- CSU Fresno Guest Lecturer 09/00-03/03 Courses Taught
- Microsoft Outlook
- Understanding of how Outlook works, and how to use the many features.
- Computer Concepts
- Comprehensive overview of technology today
- Textbook
- MS Word, Excel, Access, & PowerPoint
- Into to VB.net
- Computer Literacy
- Lighter version of Computer Concepts
- MS Word, Excel, & PowerPoint
- Engineering Graphics I
- Working Drawings
- GD&T
- Screws
- Welding Symbols
- Descriptive Geometry
- AutoCAD Solids
- Engineering Graphics II
- Cams
- Gears
- Linkages
- Production Automation
- Design in Industry
- AutoDesk Inventor
- Introduction to Drafting
- Drawing Techniques
- Geometric Construction
- Multiview Drawings
- Dimensioning
- Tolerancing
- Introduction to CAD
- AutoCAD 2006
- Interface
- Commands
- Drawing Techniques
- Attributes
- Layouts
- 3D AutoCAD
- ACIS Solids
- Primitives
- Sketched Profiles
- Booleans
- SolidWorks
- Sheetmetal
- Physical & Computer Modeling
- Rendering
- Materials
- Lights
- Animation
- Autodesk Viz
- A+ Computer Hardware & Software
- Textbook
- CCNA Course 1, Networking Basics