



TIM GERLER
MECHANICAL ENGINEER

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Specializing in Mechanical and Hydraulic Systems for Hydro Turbine Governor Applications

AREAS OF EXPERTISE INCLUDE:

- Hydro Turbine Governor Systems Engineering
- Steam Turbine Control Systems Engineering
- Hydraulic System Design and Analysis
- General Mechanical Engineering
- General Mechanical Analysis
 - Mathcad
 - MS Excel
- Computer-Aided Engineering (CAE)
 - Autodesk Product Design Suite Ultimate 2014
 - Finite Element Analysis (FEA) – Stress Analysis
 - Dynamic Simulation
- Computer-Aided Design/Drafting (CAD)
 - Autodesk Inventor and AutoCAD
 - Custom Machine Design
 - Custom Mechanism Design
 - Mechanical Drafting
 - Geometric Dimensioning and Tolerancing
- Technical Writing
 - Illustrated Mechanical Analyses and Calculations
 - Equipment Test Procedures
 - Equipment Installation Procedures
 - O&M Manuals and Product Manuals

EXPERIENCE:

- Jan 2007 – Present Gerler Engineering & Design, Inc., Loveland, CO:**
- Mechanical Engineer – Governor Systems for Hydro Turbines and General Mechanical Engineering
 - Independent Hydro Turbine Governor Product Development and Refurbishment Projects
 - Consulting Engineering - Current and Former Clients Include:
 - L&S Electric, Inc., Rothschild, WI
 - Segrity LLC, Denver, CO
 - Wood Group Turbine Control Services, Loveland, CO
 - Toshiba International Corporation, Littleton, CO
 - Alstom Power Inc., Littleton, CO
- Dec 2011 - Oct 2012 L&S Electric, Inc., Rothschild, WI:**
- Mechanical Engineer – Governor Systems for Hydro Turbines
 - Also Long Term Consulting Engineer for L&S Electric, Dec 2007 - Dec 2011 & Oct 2012 - Oct 2013
- Dec 2004 - Jan 2007 Wood Group Turbine Control Services, Loveland, CO:**
- Mechanical Systems Engineer – Control Systems for Steam Turbines, Gas Turbines and Hydro Turbines
 - Also Consulting Engineer for Wood Group, Jan 2007 - Nov 2007
- Aug 2001 - Dec 2004 Alstom Power Inc., Littleton, CO:**
- Proposal Manager - Hydro Turbine and Hydro Turbine Control System Sales
- Jun 2000 - Aug 2001 General Electric Company, Power Systems, Loveland CO:**
- Mechanical Systems Engineer – Control Systems for Hydro Turbines and Steam Turbines
- Sep 1994 - Jun 2000 Woodward Governor Company, Loveland, CO (Acquired by G.E. in Jun 2000):**
- Mechanical Systems Engineer (8/1997 – 6/2000) – Control Systems for Hydro Turbines
 - Sales Support Engineer (2/1995 – 8/1997) – Control Systems for Hydro Turbines
 - Mechanical Designer (9/1994 – 2/1995) – Control System Components for Gas Turbines
- Aug 1987 - Aug 1994 Ampex Corporation, Colorado Springs, CO:**
- Sr. Design Support Engineer (Sustaining Engineering) – Broadcast-Quality Video Recorders
- Jan 1983 - Jul 1987 Motorola, Inc., Government Electronics Group, Scottsdale, AZ:**
- Mechanical Engineer – Military Weapon Systems
- Jun 1981 - Dec 1982 Woodward Governor Company, Ft Collins, CO:**
- Mechanical Technician – Mechanical Development Laboratory

EDUCATION (Partial List):

- May 2001 Colorado State University, Fort Collins, CO:**
- Master of Science Degree in Mechanical Engineering - Mechanics & Design Concentration
 - Master's Thesis – Electromagnetic Coupling Applied to Emergency Shutdown of a Francis Style Hydraulic Turbine
- 12/1982: Colorado State University, Fort Collins, CO:**
- Bachelor of Science Degree in Mechanical Engineering
- 6/1980: Otero Junior College, La Junta, CO:**
- Associate of Science Degree in Engineering
- 6/1978: Otero Junior College, La Junta, CO:**
- Welding Certificate