

Kevin Moorman | Senior Mechanical Engineering, P. Eng., P.E., PMP

Calgary, Alberta

403-542-6191

Kevin.Moorman@efiglobal.com

Professional Summary



Kevin Moorman is a mechanical engineer with 29 years of experience in product design and failure analysis. Kevin has expertise in mechanical structures, hydraulics, pneumatics, gear train and mechatronics in heavy manufacturing and industrial facilities. He is also an authority in codes and standards, International Building Code, LEED building envelope and quality management systems.

Kevin is also a specialist with mechanical and electrical machine control software including programmable logic controls (PLC) and design software.

Kevin holds professional engineering licenses in Canada and the USA, is a Project Management Professional, certified in Rigging and is well versed in machinery safeguarding standards CSA Z432.

Expertise

Mechanical failure analysis
Rotating Machinery
Pumps and Piping

Building mechanical systems
HVAC and plumbing
Boilers and heat pumps

Building control systems
Heavy Industry
Oil & Gas

Education

Bachelor of Science (BSc), Mechanical Engineering, University of Calgary, 1995

- Minor in Computer Integrated Manufacturing (CIM)
- Dean's List Honors

Licenses & Designations

Professional Engineer (P.Eng.) - Assoc. Professional Engineers and Geoscientists of Alberta, 1997

Professional Engineer (P.Eng.) - Engineers and Geoscientists of BC, 1997

Professional Engineer (P.E.) - Florida Board of Professional Engineers, 2002

Project Management Professional (PMP) - Project Management Institute, 2014

Project Experience

- Tesco Corporation, ESI Top Drive Catastrophic Failure Investigation, Dubai UAE.
Forensic examination of main drive gearbox failure including root-cause analysis. Identified cause of loss was due to latent damage from mishandling during installation that resulted in accelerated wear damage during use from lubrication system failure.

- Tesco Corporation, 650 Ton HCI Top Drive Assembly, Proof Load Testing, Houston TX.
Designed a proof load test for 650 Ton Assembly including load nut, crossover sub, quill, swivel body, swivel pins, and bail. Load test completed at HHI Holloway Houston, Inc., post-test destructive examination conducted at Tesco Corporation, Houston TX.
- Tesco Corporation, ESI Top Drive, Amerimex Synchronous Motor - Cooling Fan Appraisal, Houston
Designed a dynamometer test procedure to bring synchronous motor top drive to operating temperature under conditions representative of actual operating conditions in order to test and confirm operational performance and to identify factors affecting performance.
- Top Rollshutters Ltd., Co-Author of Acceptance Criteria AC-294 (International Code Council),
"Permanently-Attached Shutters For Protection Against Wind-Borne Debris." Technical contributions to small-missile impact testing; large-missile impact testing; static wind load testing; statistical process control and tracking of manufactured material; and performance appraisal and rating.

Professional Experience

Coil Solutions / Ranglar Mfg., Calgary, AB

Feb 2023–June 2023
Engineering Supervisor

Central Air Equipment Ltd., Calgary, AB

Apr 2018–Current
Consulting Engineer

ProStar Manufacturing, Okotoks, AB

Mar 2018– Sep 2019
Senior Mechanical Engineer

TESCO Corporation, Calgary, AB

Aug 2005–Jan 2018
Lead Engineer, Special Projects

Top Rollshutters Ltd., Salmon Arm, BC

Aug 2000–Jan 2005
Chief Engineer

Pacific Rim Engineered Products, Langley, BC

Jul 1999–Jul 2000
Fluid Power Engineering Design

E-Zone Research, Calgary, AB

Jun 1998–Jun 1999
Contract Engineering Support

Tesco Drilling Technology, Calgary, AB

Dec 1995–May 1998
Design Engineer

Community Service

- Ronald McDonald House volunteer, 2007-2010
- Meals on Wheels volunteer, 2010-2017
- Magic of Christmas volunteer, 2016
- Lunchtime jogging, 2010-2023
- Golden Triangle, 2013
- Lunchtime Kickboxing, 2014-2017