



REGISTRATIONS

Professional Engineers Ontario, P.Eng.

EDUCATION

McMaster University
B.Sc., Psychology, 1992

McMaster University
B.Eng., Civil Engineering, 1995

University of Toronto
M.Eng., Structural Engineering, 2002

SELECTED PRACTICE AREAS

- Structural Evaluation
- Equipment/Structural Design
- Forensic Investigation
- Weld Design
- Non-Linear or Linear FEA
- Dynamic, Cyclical and Impact loading
- Lifting Equipment
- Custom Product Design
- Prototyping
- Fabrication Drawings

EXPERIENCE

Angelo Di Filippo is the founder and President of Tormak Engineering Inc. Recognized as an expert in the field of Lifting equipment and the effects of fatigue loading on supporting structures. Has completed many consulting assignments ranging from product development, design and evaluation of supporting structures, weld designs, assessment of dynamic loading affects on buildings, as well as fatigue resistance reviews and failure analysis. His focus has been on custom equipment/structural designs to meet customer requirements using Finite Element Analysis to refine strength/weight properties while maintaining a level of safety as defined by the application.

SELECTED PROJECT EXPERIENCE

Lifting Equipment

- 60 Ton x 150 ft double box girder crane with bolted center splice detail (400+ bolts)
- Review of existing building structure for new automated high-speed overhead crane application.
- Joist/building review for overhead crane loading

Custom Equipment Analysis and Reviews

- 200 Ton press design review, finite element analysis and consultation on weld and material design selections
- Custom automated gantry paint system/robot review. Review structural design as well as design details for fatigue and impact loading.
- Robot riser and track review under high inertia loading.

Structural Design

- Roof top air handling support frame fabrication details and connection designs.
- Airport hanger crane access structure at roof level
- Custom aluminum stands for steel coil support