

ROBERT C. COWLES, PE

EDUCATION / REGISTRATIONS

Michigan Technological University in Houghton, Michigan - Bachelor's Degree in Civil Engineering with Structural Emphasis.

Registered Professional Engineer in Michigan, Illinois, Indiana, Colorado and Texas.

FORENSIC EXPERIENCE SUMMARY

- Building damage due to storms and high winds, construction activity, flooding, and vehicle impact
- Structure settlement and construction defects
- Floor and roof deflections
- Roofing damage due to hail and wind
- Site drainage
- Concrete and asphalt pavement deterioration
- Code Compliance

CAREER HISTORY

Forcon International - Civil/Structural engineering consultant investigating property damage claims in Michigan, Indiana, and Illinois.

EFI Global, Owosso, Mi. - Forensic Civil/Structural Engineer - Contract Forensic Civil/Structural Engineer for this engineering firm performing damage inspections and reporting for insurance companies. Perform same functions as for previous employer.

Donan Engineering, Grand Rapids, Mi. - Forensic Civil/Structural Engineer - Forensic Civil/Structural Engineer for this forensic engineering firm performing damage inspections and reporting for insurance companies. Inspected industrial, residential and commercial buildings for tornado, high wind, snow load, hail and vehicle impact damage, as well as damage due to improper construction. Also performed civil and mechanical problem inspections.

Meridian Automotive Systems, Ionia, Mi. - Civil/Structural Engineer/Project Manager - Civil/Structural Engineer/Project Manager for this automotive parts (primarily bumpers) manufacturer designing additions and renovations to manufacturing plants. Also performed inspection and repair analysis for building damages due to manufacturing operations and weather effects. Independently performed all civil (including underground water, sewer and electrical), structural and architectural design and detailing functions. Prepared drawings required for submittal for building permit and bid documents and monitored construction to assure conformance with design drawings. Self-taught Autocad, including development of 3D drawings. Imported developed 3D models into RISA 3D for structural analysis.

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Randers Engineering, Muskegon, Mi. - Civil/Structural Project Engineer - Structural Project Engineer for this full service design build firm. Performed civil and structural design and detailing for industrial, commercial and residential projects. Developed several Excel spreadsheets for design of all types of structural elements, including steel, concrete, and fiberglass beams and columns, foundations, retaining walls, slabs, decks and many others. Used STAAD, Ram, RISA and Excel structural analysis programs. Performed all civil and structural design and detailing for Muskegon County Regional Airport Terminal, a very high profile and highly successful project.

Zurn Industries - Civil/Structural Project Engineer - Structural Project Engineer for this full service design build firm. Performed civil and structural design and detailing for natural (hyperbolic) and mechanical draft cooling towers located throughout the United States.