

DONALD H. OLSON

BS Mechanical Engineering • MS Management

911D George Street • Easton, PA • 18042

Phone: (484) 544-2873 • E-mail: olson720@gmail.com

<https://www.linkedin.com/in/donald-olson-867666111/>

PROFESSIONAL SUMMARY

Design and Solutions Project Engineer focusing on Mechatronic, Robotic, Mechanical and Industrial Applications - both stand-alone and integrated. Key areas of expertise include:

Project & Mechanical Engineering

- BS Degree in Mechanical Engineering
- Detailed Engineering Design and Calculations
- 3D Design Modelling, FEA, Computer Simulation
- Technical Support and Problem Solving
- Capital Equipment Design and Fabrication
- Automation and Additive Manufacturing

Management & Organization

- MS Degree in Management
- Vendor, Client & Internal Coordination
- Project Management & Support
- Presentations and Communication
- Cross-Functional Team Support and Coordination
- Industry 4.0, Internet of Things (IoT)

CAREER EXPERIENCE

Macrovey, Alpharetta, GA

Automation Solutions Engineer, 08/23 to present

Developed integrated solutions across multiple automation platforms, including AMRs, 6-axis Cobots, and fixed PLC controlled equipment. Leveraged the use of AI and current vision systems in the development of solutions. Utilized IoT concepts, leveraging a proprietary WMS system for integrated solution deployments. Created virtual and scaled 3D printed models of solutions for design review, workflow simulation and general display.

OTTO Motors / Clearpath Robotics, Kitchener, ON

Applications Engineer / Concept Developer, 05/22 to 08/23

Developed and presented customized automation concepts implementing the application of Autonomous Mobile Robots (AMRs). Performed actual and simulated AMR demonstrations utilizing robot software at both unit and fleet levels. Coordinated internally with technical and commercial colleagues to ensure optimal project outcomes.

SI Systems, Easton, PA

Project Engineer, 01/21 to 05/22

Fulfilled the dual role of Principal R&D Design of new intelligent automation products as well as a Project Manager for equipment installations utilizing the current the product line. Prepared Technical Specifications and Proposals.

Lutron Electronics, Coopersburg, PA

Mechanical Engineer (contract), 02/20 to 12/20

Performed detailed mechanical design and analysis (via Creo/Ansys) for electro-mechanical components and assemblies used in architectural daylighting applications. Prototyped new products via 3D printing and conducted laboratory testing to ensure conformance to design requirements.

DSM, Nutritional Products, Belvidere, NJ

Project Engineer (contract), 10/16 to 05/18

Responsible for the full management of capital equipment projects for a food-based product manufacturer. Compiled project budgets for management approval. Coordinated with vendors, internal engineers and process owners to insure all project aspects are planned and completed satisfactorily.

Victaulic, Easton, PA**Project Engineer, 5/12 to 7/16**

Performed detailed mechanical design and analysis of new pipe coupling products (via Solidworks/Ansys). Prototyped new products via 3D printing and conducted laboratory testing to ensure conformance to design requirements. Lead multi-departmental teams across the product development cycle.

Air Products and Chemicals Inc, Allentown, PA**Mechanical Engineer (contract), 06/08 to 5/12**

Performed mechanical design and stress calculations for a variety of stationary process equipment. Worked on a variety of process applications including PSA/TSA (pressure/temperature swing adsorption), combustion processes, filtration/separation, and commercial gas production.

Yuba Heat Transfer, LLC, Bethlehem, PA**Project Engineer, 12/06 to 06/08**

Executed design work and coordination for large scale heat exchanger projects in the energy generation industry. Completed projects for coal-fired, combined-cycle, and geothermal facilities.

Palram Americas, Inc., Kutztown, PA**Technical Support Manager, 03/04 to 12/06**

Initiated and fulfilled the role of Technical Support Manager (structural and architectural applications) for a \$100M plastics manufacturing company.

Trifecta Technologies Inc., Allentown, PA**Project Manager, 02/03 to 02/04**

Performed Project Management functions in the execution of Internet Development projects.

Foster Wheeler USA, Clinton, NJ**Applications Engineer, 11/96 to 12/02**

Fully supported the computerized design and construction effort of several large petrochemical and fine chemical facilities.

EDUCATION**Stevens Institute of Technology, Hoboken, NJ**

Master of Science in Management, Concentration in Project Management - 05/01

Thesis Title: A Decision Framework for the Selective Use of Virtual Teams in Multiple Location Projects

Graduate Certificate in Engineering Management - 05/99

Graduate Certificate in Project Management - 05/00

New Jersey Institute of Technology, Newark, NJ

Bachelor of Science in Mechanical Engineering - 05/96

KEYWORDS**Engineering:**

Facility Automation, 3D Design Modelling (Solidworks, Creo, Inventor), Stress/Thermal FEA (ANSYS), Computer Simulation, AutoCAD, Design Reviews, Prototype Development, Product Testing, Additive Manufacturing – (Including 3D Printing and CNC), Robotics (Stationary and Mobile / AMR), Process Plants, Structural Design, Capital Process Equipment, Mechanical Component and Assembly Design, Energy Systems, Robotics, ROS, Material Selection, ANSI, UBC, LEED, ASME, IEEE-RAS.

Management / Organization / Software:

Project Management, Engineering Management, Scope Definition, Scheduling, Status Reporting, Client Management, Budget Management, Staff Coordination, Concept Generation, Presentations, Product Launches, MS Office, MS Project, Databases, Computer File Management, Internet Development, ISO 9000, AI Concepts, Robot Fleet Management, Industry 4.0, Internet of Things (IoT).