

Scott Sardina, PE, CFPS

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ENGINEERING EXPERIENCE

Waterclock Engineering President

Milwaukee, WI
07/16 – Present

- Providing fluid power engineering expertise throughout the industry
- Fluid power system design, equipment survey, system simulation, and FMEA
- Creating industry partnerships on a project basis

Controlled Fluids, Inc. Engineering Manager/Outside Sales

Houston, TX
10/15 – 06/16

- Responsible for all functions, budget, and personnel in the Engineering Department
- Implemented Lean practices to increase department efficiency
- Responsible for over \$3MM in direct accounts and fluid power systems sales growth

International Fluid Power Society (IFPS) Board Member

Cherry Hill, NJ
03/15 – Present

- Vice Chair of Marketing and Public Relations
- Member of education, strategic planning, membership, and certification committees
- Promote fluid power education and training

The Oilgear Company Chief Engineer

Houston, TX
01/15 – 09/15

- Head of the engineering department for Houston division
- FEED, account management, and system/product sales (\$1.5MM)
- Develop hydraulic/pneumatic solutions for oil and gas industry

The Oilgear Company Application Engineer

Milwaukee, WI
11/13 – 12/14

- Conducted FEA, CFD, and multiphysics system simulations
- Generated quotes of new products and hydraulic solutions in conjunction with salesmen
- Assisted in the development and implementation of new products

The Oilgear Company Project Engineer

Milwaukee, WI
10/10 – 10/13

- Successfully led the design and fulfillment of multiple custom hydraulic systems to meet customer's specifications on schedule and under budget
- Conducted finite element analysis on complex structures
- Led core group for hydraulic manifold design and development
- Tested hydraulic systems in the shop and started up systems in the field

The Oilgear Company Hydraulic Systems Design Engineer

Milwaukee, WI
06/10 – 09/10

- Designed industrial hydraulic systems using SolidWorks
- Ensured structural integrity of systems using FEA
- Produced engineering drawings for production

University of Wisconsin—Madison Zero Gravity (NASA)	Madison, WI 09/09 – 04/10
University of Wisconsin—Madison Optical Engine Designer	Madison, WI 01/09 – 04/09
University of Wisconsin—Madison Satellite Data Processor	Madison, WI 01/09 – 04/09
University of Wisconsin—Milwaukee Nanoparticle Research Assistant	Milwaukee, WI 09/07 – 02/08
University of Wisconsin—Milwaukee Materials Research Assistant	Milwaukee, WI 09/07 – 12/07
The Oilgear Company Hydraulic Systems Design Engineer	Milwaukee, WI 05/06 – 12/08

- Made 3D models of industrial hydraulic systems and components using SolidWorks
- Made detail, installation, and weldment drawings using SolidWorks
- Improved the design methods for modeling industrial hydraulic systems

CERTIFICATIONS AND SPECIALIZED SKILLS

- Professional Engineer (PE), State of Wisconsin, 43307-6, 12/13 – 07/16
- Certified Fluid Power Hydraulic Specialist (CFPHS), 20469, 08/13 – 03/21
- Certified Fluid Power Pneumatic Specialist (CFPPS), 22466, 03/16 – 03/21
- Certified Fluid Power Specialist (CFPS), 22467, 03/16 – 03/21
- Limited working proficiency in Latin and Italian
- Elementary proficiency in German, Spanish, and French
- Proficient in Microsoft Windows, Mac OS X, Microsoft Office, Linux/Unix, Lotus Notes, SolidWorks (14 yrs), Pro/E (4 yrs), AutoCAD (14 yrs), Microsoft Project, Adobe Creative Suite 3 & 4, C++ Programming, Maple, Matlab, Java, MathCAD, STK, ANSYS, Mathematica, LaTeX, PDM, Nastran/Patran, Unigraphics NX, SimulationX, PIPESIM

EDUCATION

University of Houston Subsea Engineering Certificate	Houston, TX Expected 2017
Universidad Nacional de Educación a Distancia (UNED) Expert in Theoretical and Practical Application of Finite Element Method	Madrid, Spain 2014
University of Wisconsin—Madison M.S. – Engineering Mechanics Graduate GPA: 3.875/4.000	Madison, WI 2012
University of Wisconsin—Madison B.S. – Engineering Mechanics and Astronautics, Mathematics Graduated on Dean’s List	Madison, WI 2010

INTERESTS

- Tenor opera singer with local opera companies
- Play classical piano and write own piano pieces
- Ironman, triathlon and marathon training