

# STEPHEN A. SANDERS, P.E.

3029 N. Alma School Rd., Ste. 107-5 ■ Chandler, Arizona ■ 85224  
(480) 634-6877 ■ omicronengineering@cox.net

## EDUCATION

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1992 - 1997 University of Nevada, Las Vegas Las Vegas, NV  
*Mechanical Engineering, BSME*

- Emphasis on thermodynamics, heat transfer and HVAC

1998 Trane – Graduate Training Program La Crosse, WI  
*Sales Engineer, GTP 98-1*

- Technical sales program – Graduate studies in thermodynamic and heat transfer, mechanical systems and finance. Technical Sales Training for major HVAC and mechanical building systems.

## WORK EXPERIENCE

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2006-Present Omicron Engineering, PLC Chandler, AZ  
*Principal Engineer/Owner*

- Mechanical and Energy Consultant for Commercial and Industrial facilities. Consulting services include designing, recommending and approving the purchase of mechanical and energy related equipment.

2005-Present Intel Corporation, Inc. Chandler, AZ  
*Senior Facility Engineer (P.E.)*

- Managed the design, engineering and construction of several semiconductor/manufacturing facilities. Managed permit process and interaction with local code authorities. Maintained design budget and scope of construction for major projects from \$500k to \$20M. Supported mechanical design on projects in excess of \$20M (\$500M to \$3B). Recommended purchase of mechanical systems for all projects.

2004 – 2005 M+W Zander Phoenix, AZ  
*Project Engineer (EIT)*

- Designed air handlers and clean room equipment for semiconductor manufacturer.

2002-2004 Energy Systems Design, Inc. Phoenix, AZ  
*Project Engineer (EIT)*

- Designed commercial and industrial mechanical building systems. Participated in commissioning of major mechanical building systems. Performed complex calculations, load analysis, energy analysis. Provided construction administration for mechanical building systems.

Marketed A/E and commissioning services to owners, architects and municipal entities. Commissioned heat exchangers and thermal systems.

2001-2002      A.T. Construction, Inc.      Phoenix, AZ

*Sales Engineer*

- Sales & project management for Mechanical contracting services. Supervised small construction projects. Developed future business for outsourcing and risk management opportunities. Provided energy analysis data for pre-construction services

1998 - 2001      The Trane Company – Phoenix District      Phoenix, AZ

*Sales Engineer*

- New system equipment, controls and service sales in the building industry. Provided project support for ‘design/build’ mechanical projects. Performed energy analysis on existing and new commercial buildings. Provided consulting and sales services for energy performance contracts.

#### PROFESSIONAL MEMBERSHIPS

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- Professional Engineer (Mechanical), Arizona #42009
- Certified Energy Manager (CEM), Green Building Engineer (GBE)
- Member - American Society of Heating, Refrigeration and Air-Conditioning Engineers(ASHRAE), Association of Energy Engineers(AEE), National Council of Examiners for Engineering and Surveying(NCEES), National Society of Professional Engineers (NSPE)

#### ACCREDITATIONS, AWARDS, SKILLS & PUBLICATIONS

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- Computer Aided Drafting (CAD) proficient – AutoDesk/AutoCAD
- Environmental Engineering Support Award - Naval Weapon Center, China Lake(C3665) 1988
- Co-author, “Mass Properties Data-Handling Software,” - Society of Allied Weight Engineers, May 1988.
- Software/Computer skills – Matlab, Trane Trace 600/700(Thermal Modeling Software) and MathCad

#### LANGUAGES

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Spanish - Fluent in written and oral communication.