

# ANTHONY SQUIRES

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28702 Fox Tail Way, Highland, California, 92346

559.999.5726

[asquires2009@gmail.com](mailto:asquires2009@gmail.com)

<http://www.linkedin.com/pub/anthony-squires/13/143/444>

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## DESIGN ENGINEER

3D Autodesk Inventor • Solidworks • AutoCAD

Certified professional with six years experience designing large-scale reverse osmosis water treatment systems and facilities. Additional experience in multimedia and website design with previous background in marketing.

### **Areas of expertise and professional strength include:**

- 3D Modeling & Design
  - 2D Illustration
  - Lead Generation
  - Engineering Layout & Design
  - CD Authoring & Design
  - Tradeshow Design & Management
  - Video Production & Compression
  - Website Development
  - Electronic PDF Creation
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## CAREER HIGHLIGHTS

- Designed four large-scale reverse osmosis water treatment plants in California, Florida, British Virgin Islands, and Algeria. *Biwater*
  - Positioned several organizations at forefront of multimedia technology by designing CD Multimedia cards. *Homeland Security; National Guard; Fresno State University*
  - Gave interior design firm competitive edge by designing touchscreen kiosk for sales and marketing. *MatchStorm Studios*
  - Generated millions of dollars in leads for water treatment company by managing and operating tradeshows nationally & internationally. *Hi-Tech Water / Epoc Water*
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## TECHNICAL COMPETENCIES

**Operating Systems** | Windows XP; Windows 7

**Software** | Solidworks 2009, Autodesk Inventor 2010 pro, AutoCAD 2007, MS Office 2007, Photoshop CS2, Flash MX, Adobe Premiere Pro, Adobe Acrobat 9 pro, Adobe Illustrator, Dreamweaver MX, Act! 2000, Lightwave 9

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## RELATED EXPERIENCE

BIWATER-AEWT / INTERNATIONAL LTD.

2004 – PRESENT

*Spans full range of water and wastewater services and covers every facet of water and wastewater treatment and related environmental engineering around the globe.*

**Design Engineer** (Contractor; 2008 – Present)

**Mechanical Designer** (Contractor; 2005 – 2008)

- Designed large-scale reverse osmosis (RO) water treatment systems, including two within two weeks, working overtime to complete projects without hiring additional labor.
- Collaborated with project managers and engineers to create designs from existing process and instrumentation (P&ID) and process flow diagrams.
- Created complex general layouts of system for installation, gaining skills in use of structural steel and Fiberglas for support structures.
- Produced detailed drawings for pipe fabricators, using knowledge of various stainless steel pipe fabrication methods and calculating flow velocities.
- Designed conceptual 3D layouts for bids and converted 2D AutoCAD drawings to Inventor 2010 3D models.
- Utilized AutoCAD for conceptual layouts and elevations for seawater reverse osmosis plant (SWRO) in Nassau, Bahamas, and layout for City of Nouakchott, Mauritania's 60 MDL SWRO plant, including 3D virtual reality drawings for 32MW diesel engine driven power station.
- Worked closely with RO vendor Advanced Environmental Water Technologies for RO development.

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**RELATED EXPERIENCE, *continued***

MATCHSTORM STUDIOS (now defunct), FRESNO, CA  
*Interior design firm.*

2003 – 2004

**Website Developer / Multimedia Specialist (Contractor)**

- Created company website and implemented email broadcast system using Perl & MySQL database.
- Supported Sales by developing tradeshow CD ROM video and interactive sales CD, and designing and fabricating Touch Screen kiosk and presentation software.
- Set up and managed multimedia conference room.

FRESNO STATE UNIVERSITY, CRAIG SCHOOL OF BUSINESS, FRESNO, CA  
*Recognized as one of the best business schools in the state.*

2003

**Graphic Designer (Consultant)**

- Developed an Interactive CD ROM for "Accelerator Online" division for the Craig school of business.
- Developed Interactive CD ROM for business department "ODB-Outsourcing Data Bank."

CALIFORNIA HOMELAND SECURITY, SACRAMENTO, CA

2002

*Controls terrorism awareness initiatives for the state of California, known as California Emergency Management Agency.*

**Graphic Designer (Consultant)**

- Facilitated delivery of security crisis information and evacuation procedures to mass transit and large facilities by developing interactive CD ROM with full navigational functionality.
- Priced and managed replication of 1,000 cards, which were distributed at tradeshow to educate agencies on terrorism awareness.

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**PREVIOUS EXPERIENCE**

**Marketing Manager**, Kinetico, Inc. (2 yrs.); Hi-Tech Water/Epoc Water, Inc. (2 yrs.)

- Facilitated technology integration with existing product line by initiating multimedia techniques.
- Created 2D and 3D graphics, animated computer models, videos, and websites for marketing.

**Senior Conceptual Designer**, Epoc Water, Inc.: (3 yrs.)

- Developed plant design and layout drawings, system schematics, and P&ID drawings.
- Documented entire manufacturing process.

**Field Technician**, Binnie California, Inc.: (1 yr.)

- Operated selenium removal pilot plants and biological treatment plant.
- Operated and maintained chemical dosing and centrifugal pumps, fluidized and ion exchange beds.

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**EDUCATION / PROFESSIONAL DEVELOPMENT & CERTIFICATIONS**

**Architecture Program:** Completed 56 units, Fresno City College, Fresno, CA

**Secondary Certificate of Education**, St. Andrews College, South Africa

**Certification, Fluid Fundamentals Training Course**, Engineered Software

**Certified Associate, Autodesk Inventor 2009 Pro**, KETIV Technologies

**Certification, SolidWorks 2008; Basic through Advanced**, Digital Dimensions

**Intermediate AutoCAD; Customizing AutoCAD**, CAD Performance

**Designing Eye-Catching Newsletters, Reports, Brochures, and Ads**, CareerTrack Seminars

**Licensed Private Pilot** (Gliders)