

CORY ACTON

MECHANICAL / PROCESS DESIGN ENGINEER 📍 3101 SW 58TH AVE, AMARILLO TEXAS, 79118 ☎ 1-512-393-9854

◦ DETAILS ◦

3101 SW 58th Ave, Amarillo Texas,
79118
1-512-393-9854
coryacton212@gmail.com

◦ LINKS ◦

[Design Portfolio:](#)
www.coryacton.com
[Linkedin:](#)
www.linkedin.com/in/coryacton

◦ SKILLS ◦

Mechanical Design and Drafting
Autodesk Inventor, Solid Works,
Fusion 360, AutoCad
Geometric Dimensioning and
Tolerancing
Additive Manufacturing
(3D Printing)
Robot Programming
Fanuc and Universal Robot
Microsoft Office
SAP
Subject Matter Expert:
Semiconductor Quartz Fabrication

👤 PROFILE

- **Experienced Mechanical Designer.** Extensive background in project management, mechanical design, and assembly of process automation equipment and production fixtures, including pneumatic, hydraulic, vacuum, sensing, and high temp functions.
- **Background in use of additive manufacturing (3D printing).** Developed 3D printed parts for both process and product development.
- **Proficient in use of 2D and 3D CAD.** Utilized 2D and 3D programs for both design and mechanical documentation. Knowledgeable user of GD&T and mechanical drafting standards
- **Capable programmer for both Fanuc and Universal Robots.** Programmed both types of robots for multiple automation projects.
- **Specific experience and subject matter expertise in fused quartz fabrication.** A decade plus in the design and building of semiconductor fused quartz components for EPI and Etch Systems

📁 EMPLOYMENT HISTORY

Senior Process / Design Engineer at Schunk Xycarb Technology Inc, Georgetown, Texas Wafer Fab Quartz Components

January 2011 — October 2020

Engineering Management:

- Senior engineer in charge of three-man engineering group. Responsible for daily management of engineering work and assignments. Also tasked with communication of engineering resource needs, growth strategies, development requirements, training needs, skills requirements, and project progress.

Engineering Tasks:

- Mechanical design, project management, and assembly for robotic automation and proprietary process equipment including pneumatic, hydraulic, vacuum, sensing, and high temp functions.
- Standard and high temp fixture design for machining and assembly processes.
- Responsible for new product introduction and related tasks including costing, process definition, production drawings, production fixtures, and first production monitoring/review.
- Provided remote and on sight engineering support for sister plant in Taiwan.
- Design of rugged packaging solutions based on Keal Case methodology.
- Create and maintain 3D models, design documentation and mechanical drawings for projects and existing quartz product line.
- Apply Additive Manufacturing (3D printing) as appropriate for both process and product development.
- Program Fanuc and Universal Robots.
- Recommend process improvements related to equipment / automation needs, fabrication steps, fabrication methods, and material usage.
- SAP key user. Create and maintain production data for quartz products in SAP.

Design Engineer at CRI, Kyle, Texas Rugged Computer Assemblies

November 2009 — December 2010

- Design rugged enclosures and mounting for off the shelf or customer provided computer components. Generally military applications requiring computers to operate in extreme vibration and EMI environments
- Create and maintain 3D models, design documentation and mechanical drawings for projects.
- Report on project progress directly to company owner and customer. Update projects to improve cost and performance as required.

Cad / Documentation Specialist at Thomas Instruments, San Antonio, Texas

Documentation Packages and Components for Military Applications

March 2009 — October 2009

- Create and maintain 3D models, design documentation and mechanical drawing packages for all projects. Projects primarily for reverse engineered military aircraft components that are no longer produced by OEM manufacturers.
- Conduct reviews for drawing packages that were sold directly to military

Process Design Engineer at Schunk Xycarb Technology Inc, Georgetown, Texas Wafer Fab Quartz Components

November 2006 — December 2008

- Mechanical design and assembly for proprietary process equipment including pneumatic, hydraulic, vacuum, sensing, and high temp functions.
- Standard and high temp fixture design for machining and assembly processes.
- Design of rugged packaging solutions based on Keal Case methodology.
- Create and maintain 3D models, design documentation and mechanical drawings for projects and quartz products
- Responsible for quotes, drawings, and reverse engineering of aftermarket semiconductor quartz products.
- Create and maintain production data for quartz products in SAP

Mechanical Designer at Chatleff Controls, Buda, Texas Fluid Distribution Components for HVAC Systems

July 1996 — July 2006

- Mechanical design and assembly of proprietary process automation equipment as part of a two-man process improvement team
- Cutting tool designer for all machine tools including screw machine and CNC work centers
- Create and maintain 2D design mechanical drawings and documentation for projects and tooling

EDUCATION

Bachelor of Science Business Admin, University of Illinois,

August 1980 — May 1985

Computer Aided Mechanical Design, John A Logan College,

August 1994 — May 1996

Certificate-Additive Manufacturing for Innovative Design and Production, Massachusetts Institute of Technology

September 2020 — December 2020

REFERENCES

Zeljko Marinkovic (Manufacturing Engineer) from Schunk Xycarb technology

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Steve Strohschein (QC Manager) from Schunk Xycarb Technology

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Paul Arguellas (Manager for Global Coordination) from Schunk Xycarb Technology

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