

Shawn Nichols

R&D Engineer/Engineering Associate

Bensalem, PA - Email me on Indeed: [indeed.com/r/Shawn-Nichols/abc384ad26993d65](https://www.indeed.com/r/Shawn-Nichols/abc384ad26993d65)

Authorized to work in the US for any employer

WORK EXPERIENCE

Design Engineer

Loomis Products Company - Levittown, PA - September 2015 to April 2016

- Engineered various machine projects ranging from isostatic press stations and piston extruders to OEM spare parts
- Designed assemblies, sub-assemblies, and individual components in SolidWorks CAD package
- Developed and assisted customer in design of tooling required for customer manufacturing needs
- Created, revised, and released detailed drawings for manufacturing and sub-vendor quotation
- Generated bills of materials for project cost control and itemized project accountability
- Wrote and revised machine maintenance manuals and operating procedures for OEM equipment

Designer and Fabricator

Drexel University Senior Design: SAE Baja Design Competition - Philadelphia, PA - September 2014 to June 2015

- Researched and designed steering system in Creo-Parametric for recreational off-road vehicle
- Narrowed project scope from design phase to fabrication phase due to budgetary constraints
- Fabricated and tested vehicle frame and drivetrain for FEA verification
- Produced proof of concept verifying theoretical calculations based on testing results

R&D Engineer/Engineering Associate

Tela Bio, Inc - Malvern, PA - September 2013 to March 2014

- Researched and developed testing methods and parameters for sterile product packaging
- Tested and analyzed properties of packaging materials using graphical interpretation
- Developed sealing parameters for sterilization process and packaging of internal medical devices
- Wrote, edited, and implemented equipment work instructions and SOP's, for FDA 510(k) approval
- Involved in all product processing steps from raw materials to final product

Supervisor

United States Marine Corps - San Diego, CA - December 2008 to November 2010

- Coordinated and distributed daily maintenance tasks to Eight team members
- Incorporated Lean Logic practices to streamline work environments and task accomplishment
- Supervised team in the completion of mission critical tasks ranging from preventative maintenance to yearly Naval Command Inspections
- Evaluated team member performance and counseled on achieving career goals
- Inspected and implemented repair task on mobile maintenance facilities

Electrician

United States Marine Corps - November 2005 to December 2008

- Troubleshoot electrical equipment and wiring; removed and replaced defective components
- Manufactured custom components for down equipment; to ensure safe mission accomplishment

- Performed preventative maintenance tasks on equipment

EDUCATION

Associate of Arts in Engineering

Bucks County Community College - Newtown, PA

January 2011 to December 2012

Bachelor of Science in Mechanical Engineering

Drexel University - Philadelphia, PA

ADDITIONAL INFORMATION

Applicable Skills

AutoCAD, SolidWorks, CreoParametric, modeling; Proper lab and lab book recording procedures per FDA requirements; Tensile, and similar machine based testing applications; Microsoft Excel and Word; Machinist operations; Proper tool handling and usage; Electrical schematic interpretation

Relevant Coursework

Mechanics of Materials, Mechanical Behavior of Materials, Heat Transfer.
Basic Fluid Mechanics, Manufacturing and Processing, Microfabrication-Microfluidics,
AutoCAD Design/Manufacturing, SAE Collegiate Baja Design, Fuel Cell Engines

Shawn M. Nichols

514 Harbour Drive Apartment A

Bensalem, PA 19020

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Nichols.Shawn.M@gmail.com