

# Richard Slough

## Design / Manufacturing Engineer

Royersford, PA - Email me on Indeed: [indeed.com/r/Richard-Slough/4fcf40a089403361](https://www.indeed.com/r/Richard-Slough/4fcf40a089403361)

Experienced in hardware / software development and testing in an ISO 9000 certified industrial process control company. Also experienced in the support of medical device manufacturing, trained on ISO 13485 standards and electronic records and signatures regulations 21 CFR part 11. Proficient in the use of Microsoft Office Suite, SolidWorks, AutoCAD, Adobe Illustrator, and Visio CAD software, as well as most hardware test equipment. Capable of producing mechanical fabrication and assembly drawings, electrical wiring drawings, and schematics.

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Design Engineer

Triumph Engineering Group - Malvern, PA - July 2010 to January 2016

- Reverse engineer mechanical assemblies creating 3D models and part / assembly drawings.
- Research industrial products to identify attributes to be used in a database for on line product search.
- Perform quality check of data entered into database.

#### Project Engineer

St. Jude Medical - West Berlin, NJ - March 2009 to July 2010

- Developed and performed validation test protocols to qualify design changes and improvements to the companies' medical instrument and manufacturing process
- Investigated customer complaints and resolved and closed reported non-conformances.
- Created and maintained drawings, work instructions, travelers, labeling and specifications for new and existing products.
- Provided manufacturing engineering support for product production and assembly operations.

#### Production Engineer

Parker/ KV Pneumatics - West Chester, PA - April 2006 to November 2008

- Participated in the design and testing of customer specific pneumatic control solutions.
- Assembled and tested prototypes of new products
- Produced and maintained manufacturing assembly and test procedures, drawings, and bills of materials for designed products.
- Designed and produced assembly aids and test fixtures.
- Developed routing and time standards.

#### Manufacturing Engineer

Therakos Inc - Exton, PA - June 2003 to December 2005

Provided engineering support to the company's contract manufacturers, assisting them with resolving manufacturing problems and non-conformances encountered during assembly and test of the company's products. Additional responsibilities include:

- Developing and performing test protocols to qualify and validate changes and improvements to the companies' medical instrument and manufacturing process.

- Implementing and tracking corrective and preventive actions resulting from root cause analysis of non-conformances and evaluate the effectiveness of the actions.
- Participate in material review boards to determine response to non-conformances.
- Research and recommend improvements to product manufacturing process and develop test and qualification protocols for implementation
- Supporting documentation management in the development and maintenance of product specifications and SOPs

### **Sr. Engineer, New product development**

Metso Automation MAX Controls - Lansdale, PA - 1990 to 2002

Managed the pre-production and release of new products to manufacturing. Created user documentation for new products. Assisted in resolving manufacturing and field problems. Coordinated all hardware and software design changes. Wrote and performed test procedures for validation of system hardware, Workstations, and custom software applications (Visual C++ and Visual Basic). Enhanced and debugged custom Visual C++ and Visual Basic control system applications. Designed functional test equipment, and valuated replacements for discontinued purchased components and hardware.

### **EDUCATION**

#### **B.S. in Electrical Engineering Technology**

Temple University - Philadelphia, PA

#### **CIS in including Programming**

Montgomery County Community College - Blue Bell, PA

### **SKILLS**

SolidWorks 2015 Essential, Drawings & Advanced Assembly (1 year)