

James Tuck

Development Engineer

Maple Glen, PA - Email me on Indeed: [indeed.com/r/James-Tuck/cabd86f27a639539](https://www.indeed.com/r/James-Tuck/cabd86f27a639539)

Engineer experienced in electro-mechanical equipment, controls, automation, instrumentation and IT, new product development, multidisciplinary project management, industrial, pharmaceutical and medical device experience.

Authorized to work in the US for any employer

WORK EXPERIENCE

Development Engineer

KIDDE FIRE FIGHTING, a UTC company - Exton, PA - 2012 to Present

Elaborated calculations, studies and design documentation for mechanical systems using both analytical methods and FEA SolidWorks Simulation Professional software. Developed complex hydraulic installations for power transmission. Designed electrical and automation installations using Parker IQAN control system.

Engineer

INTEGRA LIFE SCIENCES - Plainsboro, NJ - 2009 to 2011

Reviewed PLC (Allen Bradley's SLC500, CompactLogix) and HMI (Wonderware's InTouch and Intellution's iFix, Allen Bradley's PanelView) programs and control systems' architecture, found root causes of deviations and proposed corrective and preventive actions. Supervised the operation of medical device production equipment, troubleshooted, calibrated and implemented changes of control systems and electro-mechanical components. Developed an original image analysis program in C#.net for assessing the quality of the products and determine the usable sections.

Principal Engineer

CORDIS Corp., a Johnson & Johnson Company - Spring House, PA - 2005 to 2008

Developed, put into operation, troubleshooted and validated control systems for installations of stent drug coating, using Allen Bradley CompactLogix PLC, Wonderware InTouch HMI and ArchestrA SCADA. Created specifications for outsourced software packages, reviewed the code and the validation documentation for conformity with the Cordis' Computer System Validation (CSV) and GAMP requirements and requested corrective actions for the deviations.

Senior Process Control Engineer

DELAVAL LLC - Philadelphia, PA - 2005 to 2007

Maintained and developed hardware and software controlling lines of process equipment, including complex motion control functionality, using Allen Bradley PLCs, Wonderware InTouch and Intellution iFix HMIs, integrated with Wonderware InTrack based MES. Resolved failure situations and assured the continuation of the process with a minimum of interruption. Initiated changes which improved the programs and reduced downtime. Reviewed validation documentation and implemented changes.

Senior Process Control Engineer

SANOFI-PASTEUR - 2004 to 2005

Troubleshooted and maintained control systems during the validation of a vaccine plant, using Allen Bradley PLCs and Rockwell's RSView HMI. Assured continuous operation of complex lines of automated equipment and initiated process improvements.

Project Manager

SP INDUSTRIES, HULL COMPANY - Warminster, PA - 1999 to 2004

Put into operation, troubleshoot and validated control systems for installations of lyophilization for pharmaceutical products, using Allen Bradley PLCs, Wonderware InTouch and Intellution iFix HMIs and ArchestrA SCADA. Authored original automation program for a vial handling installations comprising servo and stepper motors for actuating rotating tables, belt conveyors and pushing-extracting devices.

EDUCATION**MS in Mechanical Engineering**

Temple University Ambler Campus Glenside - Glenside, PA