



GRAHAM ENGINEERING

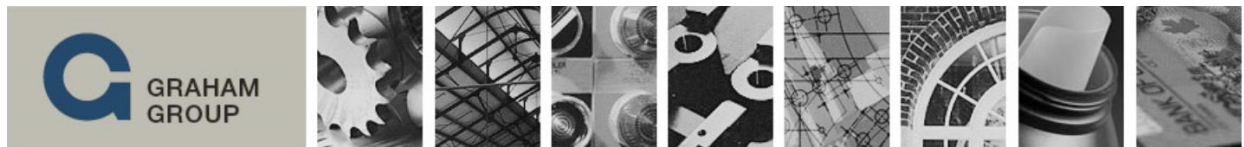
## JOB DESCRIPTION

**Date:** November 2017  
**Title:** Senior Electrical Engineer  
**Reports to:** Electrical Engineering Manager  
**Location:** York, PA  
**FLSA Classification:** Exempt

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### Background:

The Graham Group acquired majority interest in American Kuhne in October 2012 followed by Graham Engineering Corporation's acquisition of Welex in June 2013. Together, Graham Engineering Corporation, American Kuhne and Welex create a convergence of leading technologies, people & capabilities in extrusion.



Over half a century ago, industrial entrepreneur Donald C. Graham founded a design engineering firm in a farmhouse basement in central Pennsylvania. From this emerged several leading, global manufacturing businesses spanning packaging, capital equipment and building products industries. As of year-end 2011, the legacy operating businesses that share the Graham heritage collectively operated in more than 90 locations worldwide and generated approximately \$3.5 billion in annual revenues. In more recent years, this alliance has grown to include several substantial, independent investment management businesses also holding the common Graham legacy. Based in York, PA, a tenured team of operating and investment professionals actively oversee several of the legacy operating businesses that bear the Graham name, as well as an investment management business managing assets exceeding \$1.25 billion.

About Graham Group ([www.grahamgroup.com](http://www.grahamgroup.com))

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## A Company with Three Strong Brands:



### **The global standard in wheel & industrial extrusion blow molding solutions™**

With more than 400 solutions installed in customer locations in 20 countries, Graham Engineering Corporation (GEC) is the global standard in wheel & industrial extrusion blow molding solutions. GEC technology is known worldwide for quality, reliability, and productivity. GEC offers package design, development & plastic processing expertise along with monolayer, multilayer & barrier extrusion blow molding equipment & technology upgrades. With the flagship Graham wheel, leading accumulator head technology & bottle machinery, GEC systems produce billions of plastic containers of all shapes & sizes, industrial & automotive parts each year.

About GEC ([www.grahamengineering.com](http://www.grahamengineering.com))



### **The preferred provider of engineered solutions for plastic, rubber & silicone extrusion™** *Custom is our standard™*

Specialized in solving customer challenges, American Kuhne (AK) is the preferred provider of engineered solutions for plastic, rubber & silicone extrusion. AK solutions comprise standard and custom single screw extruders, feed screws, extrusion systems & specialized turnkey systems for medical tubing, laboratory, narrow web, pipe, tubing & profile systems. Beginning with the customer's application & applying decades of processing expertise along with in-house screw design, each AK solution is designed to meet exacting specifications. It is then manufactured & tested by an experienced team of professionals & supported throughout its life with parts & service.

About American Kuhne ([www.americankuhne.com](http://www.americankuhne.com))



### **The global standard in high performance sheet extrusion solutions™**

Welex is the global standard in high performance sheet extrusion solutions. With over four decades of leadership, innovation and performance, Welex leads the industry with solutions installed in more than 3,000 customer locations in 69 countries. Welex innovations include co-extrusion and multi-layer methods that lead the industry as well as dozens of barrier lines installed globally. Each Welex solution is designed, manufactured, commissioned and supported throughout its life by an experienced team of professionals. Welex continues to evolve its solutions in an increasingly competitive global market creating a new standard by reducing capital and operating costs, resulting in accelerated return on investment with a trusted brand.

About Welex ([www.welex.com](http://www.welex.com))

## Current Products:



- Extrusion Blow Molding
- Rotary Wheel
- Shuttle & Shot Pot
- Accumulator head

- General purpose extruders
- Medical tubing solutions
- Screw design

- Sheet extrusion solutions
- Multi-layer & barrier

## Position Summary:

The basic function of this exempt position is to analyze machinery and extrusion specifications together with performance requirements for new and/or existing machinery and then develop and implement an appropriate control system solution.

## Role Responsibilities and Priorities:

- Apply GEC machine control technology to new and existing equipment. Provide electrical engineering design services and assist with the creation of conceptual designs and specifications for new projects.
- Participate in control system design activities by developing and implementing HMI and soft-PLC modifications and enhancements.
- Program logical machine functions with IEC61131 programming tools and design HMI interfaces with graphical development tools.
- Create schematics, detail drawings, assemblies, sub-assemblies, BOM's and panel layouts, using AutoCAD, and perform required analysis to ensure the satisfaction of all project specifications needed for the procurement, manufacture and assembly of components.
- Support installation and/or commissioning of new and retrofit equipment.
- Provide technical support of machinery as needed, including service calls, trouble-shooting and problem solving. Utilize remote connection tools to provide technical support and guidance to successfully fulfill customer service requests.
- Enter, update, and maintain service information within the GEC database including repairs and service calls.
- Work collaboratively with all engineering disciplines and field service personnel to ensure successful completion of projects.
- Ensure that all engineering documentation is released in a timely manner to meet the requirements of the project schedule and budget.
- Work with the Sales Department in determining the viability of proposed retrofits to existing equipment.

- Provide input and guidance for overall control system development initiatives based on customer feedback, retrofit implementation, and field service experience.
- Work closely with the Electrical Engineering Manager to prioritize control system development initiatives.
- Provide technical support to all departments during procurement, assembly, testing and final acceptance of equipment.
- Visit customer sites and evaluate machinery for retrofits and upgrades.
- Assist the Technical Documentation department in the preparation of all drawings, specifications and specific operating procedures required in properly supporting product in the field.
- All other duties as assigned.

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## Job Qualifications include:

### Education

- Bachelor's degree in Electrical Engineering or equivalent experience.

### Experience

- Minimum of 5 years of machine control design experience preferably in a heavy manufacturing environment.
- Solid foundation and experience with hands on application of design principles to develop and test controls for electromechanical systems.

### Essential skills, behaviors:

- Knowledge of electromechanical, hydraulic, pneumatic and other drives and actuators, highly desirable.
- Knowledge of plastics process technology desirable, but not required.
- Demonstrated understanding of standard machine programming languages (IEC61131) including ladder, structured text, and function block. PC-based control experience with Beckhoff is a plus.
- Demonstrated experience with HMI design and development. Experience with Indusoft is a plus.
- Ability to design schematics and electrical panels utilizing AutoCAD Electrical (ACE) 2016 and/or AutoCAD 2016
- Excellent technical communication skills, including: Word, Excel, PowerPoint, Access, and Email.
- Desired Characteristics
  - Demonstrated interpersonal and communication skills in a team environment.
  - Strong organizational skills.
  - Strong analytical and troubleshooting skills.
  - Ability to work across all functions/levels as part of a team.
  - Ability to work under pressure and meet deadlines.
  - Excellent written and verbal communication skills.

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**Direct reports:** None

**Travel required:** Occasional

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### Dominant Physical Requirements & Essential Job Functions:

- This position requires the incumbent to be extremely mobile to attend various meetings, assist customers and meet with individuals on the production floor.
- The incumbent must be able to effectively communicate with employees at all levels within the organization.
- Regular and predictable attendance is an essential job function.
- Specific vision abilities required by the job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.