

Controls Engineer

JOB DESCRIPTION

Job Description: Control Engineers at Joseph Machine Company are responsible for designing complete control systems including panel layout for manufacturing equipment and specifying electrical components for the same based on equipment requirements, unique customer specifications and needs on a per job basis. This position reports to the Electrical Engineering Manager. The successful candidate will have the following requirements: Job Requirements: 1. Use AutoCAD 2015 or newer to create panel layouts, electrical wiring schematics, PLC/IO wiring diagrams and other related documentation 2. Developing electrical bill of materials and ensure purchase of these materials through company vendors 3. Responsible for working with and assisting machine design engineers in engineering of control systems for custom machines 4. Identify, solve controls and electrical system related problems, design improvement opportunities and deficiencies 5. Configuration of drives, PLC's and other control system and electronic/electrical components 6. Evaluate existing hardware and compare to other manufacturer's; offer enhancement recommendations with focus being on shrinking manufacturing costs 7. Understanding of the UL508A Industrial Control Panels and capable of meeting all NEC requirements for electrical design 8. Capable of using PLC software as a trouble shooting tool 9. Assist help desk technicians in diagnosing and resolving controls systems related field issues 10. Analyze controls issues and determine next steps 11. Prioritize issues together with Production Manager depending on level of urgency in manufacturing and customer schedule 12. Mentor and train electrical department on standard practices and quality procedures 13. Create checklists for production team associates to ensure completion of machine electrical phase prior to startup 14. Responsible for all controls related ECR forms 15. Responsible for documenting and maintaining all electrical assembly processes (JMC 100, JMC 101....) training of electrical department personnel for "hand-off" of day to day responsibilities 16. Maintain general shop safety and cleanliness 17. Any other work-related duties assigned by a manager Key Requirements: 1. B.S or associates degree in Electrical Engineering or equivalent 2. Minimum 2 years' experience in controls engineering 3. Proficiency with AutoCAD or similar system 4. Positive attitude and willing to work toward team goals 5. Demonstrate reliability through good attendance and work ethic 6. Knowledge of manufacturing equipment electrical systems including servo/stepper motion control, PID loops, safety 7. Knowledge and understanding of servos, drives, PLC's, controls, HMI 8. Knowledge of Allen Bradley and Trio controls system a big plus 9. Possesses excellent electrical/software troubleshooting skills 10. Manufacturing / production environment mindset 11. Individual must be able to multitask and able to adapt to customer driven changes 12. Ability to work independently and still function as a team player 13. Some travel required (10-15%) 14. Follow company policies and safety regulations.

LOOKING FOR

Analyzer

An Analyzer is intense, with high standards and a disciplined and reserved personality.



Strategist

A Strategist is results-oriented, innovative and analytical with a drive for change.

Controller

A Controller is detail-oriented and conservative, with a preference for high

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quality and technical expertise.

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THEY

Will be

Intense

Restless

Driving

Will need

Variety

Opportunities to work at a faster than average pace

Mobility

Will Like Hearing

Manage multiple priorities

Take the Initiative

Clarity of tasks and duties

Deliver high-quality products and services

NOTEWORTHY BEHAVIORS

Proactive

Takes initiative

Competitive

Driven to get things done

Positive response to pressure

Careful with rules

Conscientious

Thorough

Precise

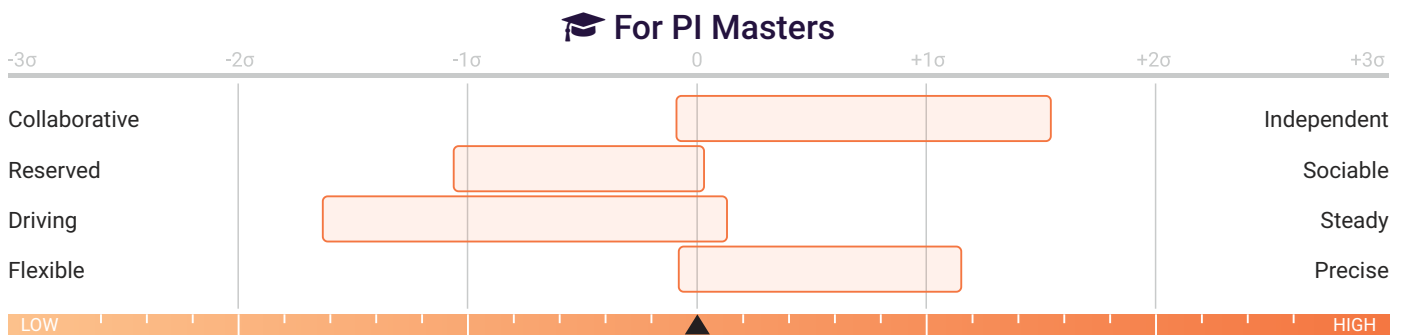
Concerned with rules and accuracy

SUMMARY

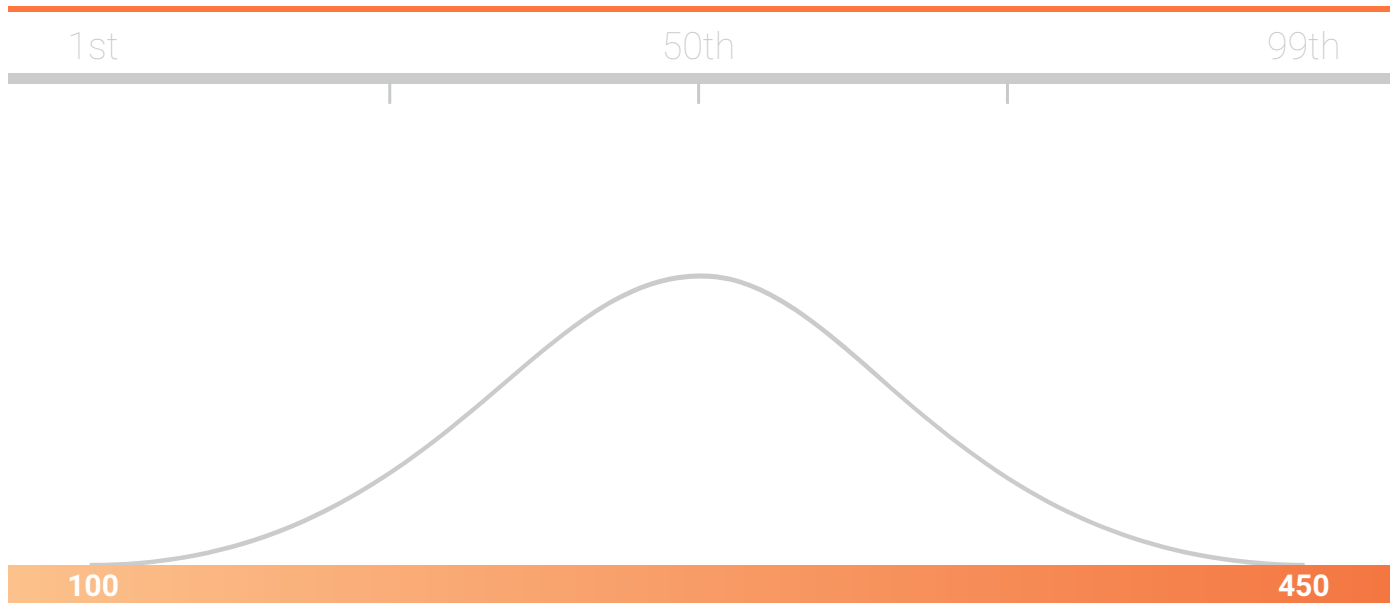
The focus of this job centers around producing timely results that are high quality and accurate. Benefiting from an analytical, inquiring and critical mind, this job requires imagination and strong problem solving skills, but with a strong technical orientation. The job requires an ability to deal with abstract concepts, systems and ideas and all of that in an organized and self-disciplined way. It also requires that serious consideration be given to all possibly related facts and potential problems. This job demands deep knowledge and expertise and to do it successfully depends on understanding detailed information. Intellectual confidence is important in this job and to do it well requires close, hands-on involvement, careful follow-up and very disciplined, and limited, delegation. This job is technically demanding and 'strictly business', with little need for influential 'people interactions'. Central to this job is the need to weigh all decisions carefully and thoroughly, based on expertise in order to avoid unpredictable risk. Getting the job done and getting it done right are the two, equal, drivers for this job, and that may create conflict.

JOB CHARACTERISTICS

- Fast-paced environment with a focus on timely, correct results
- Technical, intellectual focus Great deal of attention devoted to getting results that are timely and accurate
- Demanding, critical and exacting with close follow-up and limited delegation Reserved and confident when supported by detailed information
- Decisions are made based on careful understanding of all available information; detailed technical knowledge; expertise and serious considerations for all sides of the issue/problem
- Needs time to make the right decision and cannot be pressured to make quick decisions
- Reserved communication; 'strictly business' communicates accurate information and provides all sides of the issue
- Demanding, critical and exacting
- Needs opportunities to use/demonstrate 'know how' and expertise in finding creative solutions to problems, with relative freedom from organizational involvements
- Delegation is usually given to those who have proven to be highly dependable and precise
- Leadership style likely involves high expectations for subordinates and a high degree of review following each task



COGNITIVE TARGET



The ideal Controls Engineer candidate will have a score of at least 0 on the Predictive Index Cognitive Assessment.