

# David Alexander Carrell

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## OBJECTIVE

Seeking a controls and instrument engineering position with future mobility to team management – offering experience in SIS, DCS, and PLC system development and integration – skilled in design, testing, and commissioning of control software, hardware, and networks

## EXPERIENCE

### **Schneider Electric – Baton Rouge, LA**

*Applications Engineer – (August 2016 – Present)*

- Create and review safety requirement specifications, control strategies, and network layer integration documents
- Ensure compliance of control logic and hardware to corporate, site, and equipment-specific standards
- Develop control applications with specialization in safety instrumented systems and turbo-machinery
- Generate and conduct function test procedures during factory and site acceptance testing
- Troubleshoot software, hardware, and field related issues for site acceptance tests and startup operations
- Create automated testing scripts and custom reporting tools to increase application quality and expedite validation
- Analyze and test emerging development tools and software products in order to train colleagues

### **Textron Systems: Unmanned Systems – Huntsville, AL**

*Systems Engineer – (June 2015 – April 2016)*

- Created requirements and procedures for projects using agile development process
- Integrated, tested, and provided troubleshooting for prototype software functionality to increase quality and accelerate project schedules
- Contributed to proposal presentation materials through peer review and metric calculations

### **Nemak Alabama – Sylacauga, AL**

*Tooling and Equipment Engineering – (January 2012 – August 2013)*

- Analyzed and maintained tool life database to identify areas of failure and verify improvement initiatives
- Contributed to cross-functional teams to solve plant wide and inter-departmental maintenance issues
- Developed procedures, technical booklets, and preventative maintenance plans for maintenance department
- Composed and presented project proposal documents and milestone updates
- Conceptualized, and implemented custom equipment designs for increased machine reliability, product quality, and maintenance team safety

## EDUCATION

Auburn University – Auburn, AL

Bachelor of Mechanical Engineering, *Magna Cum Laude* – May 2015

- GPA: 3.77 / 4.00

## SKILLS

- DCS and HMI software: Foxboro IA, Wonderware, WinCC, Factory Talk || hardware and network configuration, graphic development and testing, communications and integration troubleshooting
- MATLAB || C/C++ || VBA
- Tristation1131 || TMC and SIS applications, configuration, commissioning, gap closure
- Solidworks || Engineering drawings including design for mfg, BOMs
- Hands on experience in mechanical and electrical design and fabrication

## CERTIFICATIONS, AWARDS, AND HONORS

- Functional Safety Engineer (TÜV Rheinland, #19177/ 19, Safety Instrumented Systems)
- O’Neal Austin Best Student Award || Fluid Mechanics (2013), Concepts of Design and Mfg. (2013)
- Eagle Scout Rank – Boy Scouts of America, 2010