



# LANE SIMMONS

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## Objective

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Seasoned professional with 12 years work experience in controls and process engineering. I am a lifelong learner always looking for new challenges and professionals to work with.

## Experience

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### Senior Controls Engineer      Southwire - Starkville, MS      2013 to Present

- Responsible for all control software development, commission, documentation, modernization, and migration / re-writes of obsolete code.
- Developed a fully automated backend toolchain + network topology to interface with 50+ manufacturing lines to generate trends / reports + live plant metrics using digital signage throughout the plant.
- Implemented dozens of frontend upgrades for our machine operators taking switch and indicator panels into the 21st century with industrial touchscreens running custom developed UIs.
- Managed equipment purchases along with the respective electrical installation, commissions, training, and sustainment.

### Founder      HalfSpec Engineering - Starkville, MS      2006 to Present

- Designed microprocessor based electronics for automotive applications involving waveform conversion, frequency adjustment, electromechanical control, and DC motor control.
- Successfully drafted, 3D print prototyped, and mass manufactured a finalized version of a motorized antenna to stubby antenna adapter in machined aluminum.
- Authored all supporting documentation, manuals, and installation tutorials for every product offering.

### Process Engineer      Semisouth Laboratories, Inc. - Starkville, MS      2009 to 2013

- Programmed new image recognition algorithms to transition manual metrology processes for every product line to fully automated processes resulting in 75% time savings at each measurement step.
- Created six sigma process control strategies to increase product yield and discover process related problems.
- Supported the manufacturing group by creating process specifications, troubleshooting processes and equipment, and designing corrective actions.

## Education

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### Electrical Engineering / Mathematics      Mississippi State University      2009

## Technical Skills

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- **Languages** - C++, VB / VBA, Python, HTML/CSS, and Ladder Logic
- **OS** - Linux, Windows 3.11-11, DOS 6/7
- **Software** - Microsoft.NET, VB, Atmel + WinAVR Toolchains, MS Office, AutoCAD, Eagle, OpenSCAD, Orcad Pspice, Minitab, JMP, Rockwell / Siemens Control Suites,