

## Contact

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(LinkedIn)

## Top Skills

Data Science  
Web Scraping  
Databases

## Languages

English (Native or Bilingual)

## Certifications

Xamarin & Firebase: Authentication  
and Firestore for Xamarin  
Coaching and Mentoring  
Swift 4 Fundamentals Course  
Axiom Trend Graphs  
C# Basics

# Aldon P. Smith

Senior Automation Engineer at Flexware Innovation | ECU  
Engineering Advisory Board Member  
New Bern-Morehead City Area

## Summary

I am a dedicated, motivated, hardworking, and adaptable individual demonstrated by many accomplishments that will add value in supporting your company. I am a young professional in the Pharmaceutical Industry working as an Automation Engineer.

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## Experience

### Flexware Innovation

#### Senior Automation Engineer

December 2023 - Present (2 years 5 months)

Remote

Responsible for providing expertise in controls and automation for clients, in addition to the following:

- Architect site-wide Aveva PI systems.
- Act as SME for client PI systems.
- Configure entire PI systems from concept to operation.
- Develop scripts for HighByte development.
- Integrate HighByte into new and existing client sites.
- Brainstorm and execute on plans to integrate LLM and Agentic AI into manufacturing processes.

### PharmEng Technology

#### Automation IT Integration Sr. Consultant

July 2023 - November 2023 (5 months)

Havelock, North Carolina, United States

Responsible for developing the structure and strategy for the Automation/Integration department, in addition to the following:

- Attend meetings with client stakeholders to understand their automation needs.
- Review drawing and documentation packages to assess client requirements.
- Generate business leads through my personal contacts.
- Author business proposals for process and business automation-based projects.

- Act as point person for all automation-related business.
- Create and maintain an automation-based training curriculum and trainings.
- Review candidate resumes for specific project needs.

## Skellig

1 year 9 months

### Historian Strategy Lead

March 2022 - July 2023 (1 year 5 months)

United States

- Work closely with peers across Skellig to ensure coordination of efforts and consistent communications to leadership.
- Establish historian design principles and verify against sites Skellig Engineers work to guarantee a reliable Historian architecture and solutions for various manufacturing facilities.
- Supervise the Historian I4.0 Historian Team, aligning their responsibilities with the broader Skellig strategy.
- Develop, retain, motivate, and recruit Historian and I4.0 Digital Solutions talent to build historian capabilities.
- Define the vision and lead the Historian Team to believe in that vision for Historian systems @ Skellig and ultimately at customer and partner sites.
- Actively engage and examine platforms with Historian functionality for partnering and/or inclusion in the I4.0 Model.
- Select and advance the adoption of great ideas by evaluating innovative historian initiatives based on clear and direct impacts as well as customer and business outcomes.
- Prioritize Historian activities based on long term Skellig Industry 4.0 Vision and clients obtaining only the best digital solution and architectures.
- Facilitate Historian meetings to ensure they stay on topic and objectives are met.
- Build business strategy plan for historian systems within Skellig, including but not limited to timeline, headcount, resourcing on projects, etc.
- Ensuring Tech Leads are recording strategies and learning, to share knowledge and Historian Strategies across Skellig.

### Automation Engineer

November 2021 - March 2022 (5 months)

United States

- Responsible for designing process historians for Industry 4.0 implementations.

- Work closely with peers across Skellig to ensure coordination of efforts and consistent communications to leadership.
- Establish historian design principles and verify against sites Skellig Engineers work to guarantee a reliable Historian architecture and solutions for various manufacturing facilities.
- Provide project support for clients.

### Smith Brothers Development, LLC

President/CEO

June 2020 - December 2021 (1 year 7 months)

Greenville, North Carolina, United States

Responsible for overall direction of the company, in addition to the following:

- Design and integrate technical solutions to solve clients problems.
- Author Statement of Work and Proposal documentation for prospective clients.
- Organize and track company metrics and financials.
- Manage company social media and company image.

### PharmEng Technology

Automation Engineer

January 2021 - October 2021 (10 months)

North Carolina, United States

Responsible for supporting automation training and business development activities, in addition to the following:

- Provide automation support for multiple control systems, used for the production of biologics, including: ABB 800xA, ABB MOD300, and DeltaV.
- Troubleshoot hardware and software related problems.
- Manage and update ABB Visual Basic and PG2 graphics.
- Manage and support work orders for automation system updates and projects.
- Subject Matter Expert for OSIsoft PI Server and PI Vision 2019.
- Recreate control system graphics in PI Vision for ease of access to data for Process Scientists.
- Provide technical support/troubleshooting for manufacturing.
- Update control system configuration and graphics based on proposed changes defined in change control documents.
- Author revisions to existing Software Design Specifications for changes per change control requirements.
- Design, create, and maintain the Automation Engineering training curriculum.

## Sequence Inc.

### Consultant I

December 2019 - January 2021 (1 year 2 months)

Raleigh-Durham, North Carolina Area

Responsible for supporting validation and commissioning activities/projects for the Manufacturing System Compliance business unit, in addition to the following:

- Generate lifecycle documentation for Siemens PCS 7, Siemens Desigo CC Building Automation System (BAS) / Atmospheric Monitoring System (AMS), and Manufacturing Network and Server Infrastructure.
- Responsible for leading the Automation validation effort.
- Manage the Automation Validation group deliverables to ensure project deadlines are met.
- Provide technical solutions for encountered problems related with commissioning and qualification of IT and Automation Systems.

## Thermo Fisher Scientific

1 year

### Computer System Validation Engineer I

April 2019 - December 2019 (9 months)

Greenville, North Carolina Area

Responsible for supporting automation and validation activities within the Steriles and OSD production business units.

- Author VPP/IQ/OQ/PQ documentation for distributed control (DCS) and SCADA systems.
- Author validation summaries.
- Responsible for managing and completing multiple SCR tasks through TrackWise.
- Present technical knowledge from investigations to cross-functional business units
- Assist with creating the Computer System Validation Site Masterplan.
- Experience in testing and validating DeltaV systems using the S88 structure.
- Knowledgeable in cGMP, GAMP 5, PIC/S, ICH, Annex 11, and 21CFR Part 11 regulatory guidelines.

### Validation Engineer I

January 2019 - April 2019 (4 months)

Greenville, North Carolina

Responsible for driving the day-to-day activities and completing projects for the Validation group. Responsibilities include:

- Develop VPP/IQ/OQ/PQ protocols and summaries for cleaning, equipment, and process validation projects.
- Execute IQ/OQ/PQ protocols.
- Utilize the validation V-model for developing test documentation.
- Manage site change request (SCR) tasks for the full project lifecycle.

## Sequence Inc.

1 year

### Integration Engineer I

May 2018 - December 2018 (8 months)

Greenville, North Carolina Area

Responsible for assisting with client projects and day-to-day activities in the automation shop, including the following:

- Build electrical control panels.
- Update/author AutoCad Electrical and Microsoft Visio drawings.
- Siemens LOGO! PLC programming.
- Assist with documentation and organization of incoming and outgoing projects.
- Support computer validation activities around DeltaV in continuous manufacturing of oral solid dosage (OSD) pharmaceuticals.
- Troubleshoot control strategy and testing of DeltaV system whilst maintaining GAMP 5 and GMP requirements.
- Create and maintain project schedule for validation team using Microsoft Project.
- Author and review Installation Operational Qualification (IOQ) protocols and System Specification Documents (SDS) for OSD manufacturing equipment.
- Execute IOQ protocols for qualified OSD manufacturing equipment.
- Provided engineering support by conducting a time study on the syringe packaging line.
- Conducted root cause analysis on cGMP packaging line to identify and analyze issues.
- Conversed with clients to simplify the error documentation methods

### Controls Technician

January 2018 - May 2018 (5 months)

Greenville, North Carolina Area

Responsible for assisting with client projects and day-to-day activities in the automation shop, including the following:

- Mounting and wiring various control equipment (PLCs, I/O blocks, Relays, etc.) into control cabinets.
- Verify, red-line, and correct electrical schematics using AutoCAD Electrical.
- Manage and organize client projects for ease of access to required documentation.

## East Carolina University Information Technology Computing Services ( ECU ITCS)

### Computer Technician

May 2016 - May 2018 (2 years 1 month)

Greenville, North Carolina Area

Responsible for providing quality customer service and repairs to each student. Responsibilities and activities include:

- Conduct warranty researches for incoming clients.
- Provide any warranty information to clients.
- Complete hardware and software requests for clients based on warranty status.
- Perform Mac, PC, and Linux hardware and software repairs.
- Diagnose problems within the client's system to find the root cause.
- Troubleshoot any complications with hardware/software.
- Manage multiple clients and projects at once.

## FUJIFILM Diosynth Biotechnologies

### Engineering Intern

May 2017 - August 2017 (4 months)

Morrisville, NC

Responsible for supporting automation and project engineering, as well as the validation group with day-to-day activities and projects on site. Responsibilities and activities included:

- Temperature mapping environmental chambers using Kaye Dataloggers/ Thermocouples with Kaye Validator.
- Perform validation qualifications for process support equipment.
- Assist with changeover activities for cleaning validation using LIMS sampling management.
- Recreated control graphics using PI Process book for remote process monitoring.
- Create and edit tags in the PI historian using PI-SMT.

- Create and configure alarming for DCS tags in the BMS, Johnson Control Systems.
- Exposure to ABB Mod300 and 800xA DCS and Siemens S7 PCS systems.
- Added process equipment and graphics to unit operations in the DCS.
- Troubleshoot problems with DCS.
- Create scripts using Perl and other programs to automate and perform weekly backups.
- Troubleshoot Akta chromatography skid communications to network and to the CU-950.
- Troubleshoot Allen Bradley PLC connections and code for production equipment.
- Exposure to RSLogix 5000 interface and programming.
- Perform Bioreactors recipe water runs.
- Provide hardware and software repairs for process specific workstations.
- Re-image and configure DCS operator workstations.
- Walk down and redline P&IDs.
- Create engineering specification documentation for equipment and software.

## Metrics Contract Services

### Formulation Intern

December 2016 - April 2017 (5 months)

Greenville, North Carolina Area

Responsible for supporting daily activities of the pharmaceutical development team. Responsibilities and activities include:

- Perform research for excipient compatibility tests.
- Write detailed reports for research conducted throughout plant.
- Conduct testing for the hardness, thickness, degradation, and weight of tablets.
- Assist with creating formulation batch records for clinical trials.
- Assist with the execution of batch records for client specific products.
- Assist with the scale up process for small molecule development.
- Review batch records for QA approval.
- Introduction to small molecule organizational structure.
- Annual GMP training and orientation.
- Data Integrity orientation and training.

## East Carolina University ITCS

### Networking Intern

June 2015 - May 2016 (1 year)

Greenville, North Carolina Area

Responsible for supporting the Network Engineering group of the ITCS Department with day-to-day activities. Responsibilities and activities included:

- Install and troubleshoot VoIP phones.
- Assist with installing and configuring network switches.
- Perform cable management for networking closets throughout the campus.
- Exposure to implementation of redundant systems, system architecture, and switch systems.
- Trace and troubleshoot network connections based on user's location.

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## Education

East Carolina University

Bachelor of Science (B.S.), Engineering with a concentration in Bioprocess Engineering · (2014 - 2018)