

NICK MONTELEONE

SOFTWARE ENGINEER – BIOTECH INDUSTRY

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EDUCATION

UNIVERSITY OF COLORADO,
BOULDER (AUG 2014-2018)

B.S.E. CHEMICAL & BIOLOGICAL ENGINEERING

3.92 GPA

Minors: Biomedical Engineering &
Leadership Studies

Awards: Colorado Engineering Council
Silver Medal, Outstanding Undergraduate
Research Award, Engineering Dean's List

SKILLS & SOFTWARE

Software Engineering

Python / NodeJS

JavaScript / TypeScript / Angular

SQL / PostgreSQL

HTML & CSS / VBA / Git

Docker / Linux / WSL

Process Controls

Distributed Control System Batch

HMI Graphics (Ignition, DeltaV)

PLC Programming (RSLogix)

Thin Clients (ThinManager)

OPC Interfaces (Kepware & IGS)

Control System & Network Design

Infrastructure

VMware ESXI & Fusion

KNEAT & HP ALM Testing

Windows Patching

Active Directory

Time Series Databases

Batch / Event Frame Interfaces

Data Archive

Batch and Time-based Reports

General

Communication

Personnel Management

GxP Engineering Design

GMP Documentation

Microsoft Office (Word, Excel,

PowerPoint, Visio)

Project Management (Primavera

P6 / JIRA SWIM / Zoho)

INVOLVEMENT

ISPE, San Francisco Chapter

Emerging Leaders Committee

Event Leader (2020 - Present)

WORK EXPERIENCE

Senior Automation Engineer / JSat Automation Inc.

April 2022 – Present / Oakland, CA

- Deployed electronic form app for large biotech company for monitoring critical utility buildings.
- Developed Python scripts for electronic form bulk editing, documentation, and testing. Implemented for client site using NodeJS back-end and Angular front-end. Presented to company on tool creation process.
- Led project to upgrade & virtualize a multi-server control system for a biotechnology firm.
- Developed, reviewed, and approved applicable network and automation-related specifications.
- Performed off-line and on-line configuration, testing, and peer reviewing, and execute procedures related to baselining or moving software between environments.
- Supported design, development, and execution of automation testing control commissioning tests.
- Performed troubleshooting of process, equipment, and system malfunctions or failures for DCS.

Automation Engineer II / BioMarin Pharmaceutical Inc.

November 2020 – April 2022 / Novato, CA

- Designed and implemented network infrastructure and software for first DeltaV distributed control system in BioMarin's US-based manufacturing facilities. Collaborated with Ireland site engineers to align standards internationally. Developed documentation, change control, and testing for qualification.
- Planned virtual and physical architecture for Production and Qualification DeltaV systems. Supervised work by contractors for installation and testing. Verified cross-functional end user requirements from multiple different groups were met.
- Installed and tested development distributed control system, including a simulation environment as a novel solution for engineer and operator training.
- Developed documentation, drawings, and testing for qualification of a PLC and HMI system upgrade project, ensured system turnaround within downtime window to meet production schedule constraints.
- Led project for reconfiguring controllers to adapt bioreactor system to meet updated requirements from lab users, completing within allotted downtime window.
- Executed code configuration and testing for monitoring controlled temperature environments.

Data Systems & Applications Engineer I/II / BioMarin Pharmaceutical Inc.

June 2018 – October 2020 / Novato, CA

- SME and team lead for projects and administration of time-series database system used for monitoring and analyzing manufacturing process data.
- Developed standardized Review-by-Exception batch reports through cross-functional collaboration with manufacturing and quality to align alarm strategy in automated recipes with risk assessments. Presented the novel engineering solution at 2020 PI World conference and earned recognition as a top selection.
- Provided on-call technical support and troubleshooting for PI data collection, reporting, and displays.
- Organized week-long global summit for PI System collaboration at BioMarin's Shanbally, IRE facility. Aligned on processes to increase efficiency for both sites and collaborated for technical solutions.
- Performed time-series database creations, virtual infrastructure upgrades, and report implementation under change control, including change owner role for several first-in-kind implementations.
- Created and executed acceptance testing for data contextualization and batch report templates for time-series data and analytics, including a daily temperature monitoring report to increase compliance and efficiency for facilities staff. Presented internally for cost savings and ROI for daily report project.

Manufacturing Sciences & Technology Intern / BioMarin Pharmaceutical Inc.

May 2017 – August 2017 / Novato, CA

- Developed and implemented new process monitoring tool for manufacturing facility by integrating VBA code into displays and organizing data points into hierarchies, increasing the efficiency and effectiveness of data visualization for users.