Last Updated on 15 April 2020

Samir Mukhida

shmukhida@gmail.com | 707.273.6535

EDUCATION

GEORGIA TECH
MS–COMPUTER SCIENCE
In Progress | Atlanta, GA

U ARIZONA
BS–MOLECULAR & CELLULAR BIOLOGY, PLANT SCIENCES
Dec '10 | Tucson, AZ
Dean's List Honorable Mention
President's Award
AIMS Award

RESEARCH

ARIAS LAB
MIDWESTERN U,
COLLEGE OF PHARMACY
Sep '11– Apr '12 | Glendale, AZ
Drug discovery research involving β4 nAChRs, 18-MC, and CHANTIX (varenicline). Administered cocaine injections to test animals and conducted motor-physical data collection and analysis in Prism [1].

RHOADS LAB
U ARIZONA,
COLLEGE OF AGRICULTURE & LIFE SCIENCE
Aug '09 – May '10 | Tucson, AZ
Molecular and computational biology educational curriculum development as part of the Genomics Education National Initiative. Developed ligation-independent gene cloning protocols.

SKILLS

TECHNICAL SKILLS
Proficient with:
Python • Visual Basic • LabVIEW • UNIX/Shell • DOS/Batch • Windows Embedded • PLC • Modbus • GIMP • MS Office Suite
Familiar with:
Perl • HTML • CSS • WordPress • Agile • Git • Docker • Arduino

SOFT SKILLS
Product & Program Management • CRM • ERP • Acquisitions • Training • Leadership • French

EXPERIENCE

METTLER TOLEDO | GLOBAL APPLICATIONS ENGINEER
July '17 - Present | Los Angeles, CA & Boston, MA
- Subject Matter Expert for RMS (real-time microbial system) implementation in Pharmaceutical, Cosmetic, and Medical Device manufacturing processes.
- Leveraged by local marketing organizations along with producing organization to solve critical implementation challenges, participate in the sales process, and deliver smooth integration experience for strategic accounts with global sales implications.
- Develop and support novel middleware solutions permitting use of instruments in new or existing smart manufacturing infrastructure. Liaise with controls and automation engineers to deliver the desired functionality to end-users.

METTLER TOLEDO | TECHNICAL SERVICE MANAGER
Sep '15 – 'July 17 | Tucson, AZ
- Technical adviser to product management, generating detailed technical manuscripts including whitepapers, manuals, SOPs, as well template marketing material.
- Worked with software engineering to enhance product's LabVIEW and Windows Embedded-based UI/UX, including new functionalities for field service.
- Authored visual data analytics/forecasting application and lab automation software.

INSTANT BIOSCAN | SERVICE MANAGER
Feb '15 – Sep '15| Tucson, AZ
- Field and depot service program management.
- Primary integration support for several top ten biopharmaceutical and personal-care companies, including project management for worldwide deployment and validation efforts at global leading biotechnology company.
- Instrumental in supporting company growth and eventual $30 million asset sale of the startup to Mettler-Toledo Thornton.

INSTANT BIOSCAN | ENGINEER
Sep '13 – Feb '15 | Tucson, AZ
- Early member of this startup, which developed, manufactured, sold, and serviced RMS (real-time microbial system) instruments—process analyzers which enumerate microbial cells within ultra-pure water using non-destructive optical methods.

TECHNICAL PROJECTS

LABORATORY AUTOMATION | Python (Tk), VNC, ModbusTCP
Oct '19 – Present | METTLER TOLEDO
Built a fully-documented remote control driver in Python for analyzer product. Implemented driver in GUI application to assist with automation of lab experiments.

DATA ANALYSIS TOOLS | Python (Pandas, NumPy, Matplotlib, Tk)
Mar '18 – Present | METTLER TOLEDO
Built a fully-documented visual analytics GUI in Python using ubiquitous data science libraries. Leveraged fbProphet library in codebase for tunable time-series modeling and forecasting.

GUI SIMULATOR | Visual Basic
Nov '16 – Dec '19 | METTLER TOLEDO
Built simulation application and installer for analyzer product's GUI, permitting demonstration of analyzer product's features and interface with minimal hardware dependencies.

PUBLICATIONS

[1] S. Mukhida & H. Arias: Role of the β4 nicotinic receptor subunit in the anti-addictive activity of 18-methoxycoronaridine.Abstract & Poster, Federation of American Societies for Experimental Biology. Presented in San Diego, CA Apr '12