Shivam Gandhi

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SUMMARY

Accomplished Software Development Manager with 7+ years of experience in facilitating instrument hardware and software development at a system level.

CAREER HIGHLIGHTS

- 4+ Years of experience as Technical Lead and Manager of Software development team.
- 3+ Years of experience collaborating with international teams to deliver finished products on time.
- 7+ Years of experience in R&D Software and Hardware Development.
- 9+ Years of experience in .NET technologies (C#, PowerShell, C, Iron Python).
- Designed, developed, and launched multiple instruments for PCR applications.
- Designed, developed, and launched imaging based cell sorting instrument with a focus on morphology.
- Developed and launched Rapid DNA Analysis instrument used to identify highly sought-after ISIS leader.
- Design/Process: OOAD, Design Patterns
- SDLC: Agile Methodology, Scrum Framework, Waterfall

RELEVANT EXPERIENCE

DeepCell (Imaging and A.I. Based Cell Sorting Instrument Biotech Company)
Instrument Control Software Manager **Apr. 2022 – Present**

- Led hiring efforts and grew software team from 4 Software Developers to 8 Software Developers and 1 Software Test Engineer.
- Managed and led an existing instrument software project which helped deliver an early access prototype instrument to customer partners.
  - This helped generate data that was used within publications and show the feasibility of the product.
- Managed and navigated around constant scope/strategy changes to deliver control software for an all new instrument in under 6 months.
- Worked together with many different cross functional groups; generated requirements for necessary features to deliver software to dependent teams to meet validation deadlines
- Improved software quality by reducing scope of code reviews, introducing new tools to CI/CD pipeline, integrating new processes into development practices, and creating a test plan/report.

Fluidigm (Imaging Mass Cytometry & Microfluidics Instrument, Reagent, and Consumable Biotech Company)
Software Development Manager **Oct. 2021 – Apr. 2022**

- Led multiple technical teams, with a total strength of 7 Software Development Engineers and 3 Software QA Engineers.
- Managed and lead the BiomarkX instrument software project to completion within tight timeline, launched the instrument in year 2021.
- Actively involved and lead product, technical architecture, strategic and executive leadership planning decisions for the group, including customer and partner engagements that fuel product adoption and help build long term strategy for the service.
- Expertise and strength in hiring, leading and growing talent within teams, and help build vision that facilitates organizational growth.
- Strong experience improving existing software as well as building new ones that impact performance of PCR instruments.
- Responsible for driving, developing and sustaining Engineering Software. Used to manufacture, service, and develop both the BiomarkX and the Signature Q100 Instruments.

Fluidigm (Imaging Mass Cytometry & Microfluidics Instrument, Reagent, and Consumable Biotech Company)
Software Instrument Control Team Leader **Aug. 2019 – Oct. 2021**

- Responsible for the full scope of the instrument tech stack. Integrated hardware components together and into the instrument control software. Instrument software based on C# running .NET Framework.
- Architected instrument control software for scalability and future development. Possible to implement and test any hardware device. Vital for FDA testing of medical devices.
- Architected and developed instrument UI software focusing on simplicity for the user.
- Yielded a 100% increase in power output and efficiency by improving the layout of the power distribution board on the instrument using Altium Designer.
- Mentored interns, guiding them through understanding the instrument hardware and software stack, and teaching them how to properly develop software in a diagnostics-focused environment.
- Gave demonstrations to members of Congress and company board members. Explained the integration process on the instrument's technology to achieve the end-product.

Thermo Fisher Scientific (Instrument, Reagent, and Consumable Biotech Company)
Software Engineer II / R&D Software Intern **Jun. 2016 – Aug. 2019**

- Reduced instrument manufacturing validation time from 3 hours to under 20 minutes by developing software macro tools making the process a one-click setup.
- Reduced instrument manufacturing build time over 3 days by developing testing automation tool to validate all hardware components and generated a ready-to-print validation report.
- Authored software installer now used to integrate instruments in difficult customer environments. Allowed instruments to be installed without a representative.

EDUCATION

BSEE (Santa Clara University)

MANAGEMENT & TECHNICAL SKILLS

- Strong motivating and leadership skills.
- Manage direct reports, provide guidance and mentoring, concurrent to hands on technical project execution.
- Excellent technical writing, strong problem solving and communication skills to interface with all levels of management.
- Strong experience in automation systems and controls from concept design to implementation.
- Direct experience with design, commissioning and validation of equipment.
- Excellent skills in troubleshooting, Design and Modification of Electro mechanical Equipment.
- Familiar with medical Device Regulations-CFR & ISO Requirements.
- Knowledge of various engineering software applications/languages such as SolidWorks, Altium Designer, C#, C, Python, Iron Python and PowerShell.
- Strong knowledge on PCB Layout design using Altium designer.
- Demonstrated troubleshooting on analog and digital PCBA boards.