

Andras Lukacs

Engineering Director

Tech savvy and innovative leader; poised to elevate customer satisfaction, business growth, and market penetration by delivering cutting-edge software and hardware products using engineering best practices. Extensive engineering leadership experience in medical and robotics industry. Known for boosting product quality, enhancing productivity, and reducing time-to-market by formulating robust engineering strategies and fostering a culture of continuous improvement. Expert in leading and completing high-impact projects within time and budgetary constraints by recruiting, onboarding, and mentoring highly skilled engineering teams. Possess strong communication and analytical skills; expert in cultivating relationships with key stakeholders, vendors, and third-party contractors to propel engineering department to new heights of success and execute transformative projects.



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AREAS OF EXPERTISE

Software Development Lifecycle

Hardware & System Engineering

Project & Program Oversight

AI Algorithms Development

Agile & Scrum Methodologies

Team Training & Guidance

Budgeting & Resource Allocation

Quality Assurance & Testing

Contract Negotiation

Performance Monitoring

People & Client Management

Process Improvement

Regulatory Compliance

WORK EXPERIENCE

Engineering Director

Quantum Surgical, France

10/2021 - Present

Ensure successful delivery of groundbreaking medical robotics products within challenging startup environment by mentoring and directing System, Hardware, and Software Managers. Improve dependability and performance of the medical robotics product by creating system development framework and executing rigorous testing procedures at software and hardware component levels. Ensure all facets of product development lifecycle adhere to rigorous medical quality standards.

Selected Accomplishments:

- Engineered and launched innovative medical robot in four years, resulting in achieving premier sales on USA and EU market.
- Boosted medical robots' capabilities and functionality by creating advanced system design and classical/AI algorithms in coordination with product owners.
- Secured USA 510k certification top of EU CE Mark by coordinating additional usability and clinical tests.
- Fortified product resilience against potential threats and met evolving industry standards by devising cybersecurity strategy based on UL2900 and conceptualizing Proof of Concept (POC) for a Software as a Service (SaaS) DICOM Viewer.
- Enhanced holistic product offering by catalyzing advancement of robotics and hardware development through integration of state-of-the-art development methodologies.

Software Manager

Quantum Surgical, France

09/2018 - 09/2021

Drove growth of software division by leading and guiding highly skilled scrum teams. Established meaningful Key Performance Indicators (KPIs) to monitor/advance team productivity. Elevated software quality and reliability by setting up Integration AutoTest system and leveraging Jenkins/Gitlab-based Continuous Integration (CI) practices.

Selected Accomplishments:

- Grew software team from single Scrum team to four by recruiting, onboarding, and evaluating competent software engineers.
- Augmented efficiency of software development process by implementing agile methodologies and Scrum practices.
- Streamlined workflows, obtained project milestones, and increased team cohesion using JIRA-based project management.
- Enforced quality and regulatory standards, including IEC 62304, and AAMI TIR45/TIR36 to architect compliant software solutions.

WORK EXPERIENCE

Systems and IT Director

Fresenius Kabi, Infusion Systems Department, France

09/2017 - 08/2018

Headed all facets of IT software development and infusion devices/IT products integration to offer robust IOT solutions as per market demands. Promoted growth and well-being of team members by applying effective people management strategies.

Selected Accomplishments:

- Supervised and coached three IT software development Scrum teams to foster high-performance environment.
- Elevated adaptability, responsiveness, and efficiency within teams by revamping classical development team structure.
- Spearheaded transition process to ensure smooth adoption of agile and scrum practices in development workflow.
- Negotiated with subcontractor companies to increase external collaborations and certify project success.

Platform Senior Engineering Manager

GE Healthcare, Advantage 3D Visualization Department, Hungary

08/2017 - 04/2014

Directed two to five Scrum teams across entire spectrum of new imaging platform introductions from initial marketing discussions to final validation tests. Led scaled transition by certifying seamless integration of agile methodologies across teams. Demonstrated strong financial acumen in managing budgeting, resource allocation, and project planning for software division.

Selected Accomplishments:

- Achieved significant reduction in release cycles by transitioning team from a waterfall development model (1 release per 1-15 years) to an agile releasing model.
- Navigated and maintained team viability through three reorganization waves by overcoming challenges arising from inheriting responsibilities from canceled China and India teams, as well as loss of all local contractors (half of the original team).
- Executed programs by retaining strict adherence in compliance with IEC 13485, CE mark, and FDA with keen focus on quality and safety in development and release of medical products.

Group leader; Projects leader; System Engineer; Software Developer

GE Healthcare, Vascular Systems Department, Hungary

06/2004 - 04/2014

Oversaw estimation, planning, reporting, and monitoring of all software deliverables for automated testing aligned with project scopes. Spearheaded platformization of reliability measurement software tools projects by strategically allocating spare resources based on platform and administering budgets.

Selected Accomplishments:

- Provided visionary leadership to 11-member group for successful project completion and timely delivery of high-quality software.
- Improved department performance by incorporating features related to Image Processing pipeline parameter optimization.
- Boosted testing processes accuracy by creating test automation framework using JAVA, embedded C, VxWorks, and tcl languages.
- Led development of groundbreaking prototypes for next-generation embedded software/hardware, achieving unparalleled resilience in HAST testing and precision in reliability measurement tools.

EDUCATION

PhD in Physics

Eötvös Lóránd University Budapest

Master of Science in Economics

Corvinus University, Budapest

CERTIFICATES

Managing at GE - GE Global Technologies Training Centre in Florance

Project management /PL-2119/ - Szinergia Kft.

Design for Reliability training – GE Global Technologies Training Centre

Hiring new people, Effective coaching skills, Assertive communications - BB Training Centre

LANGUAGES

Hungarian

Native or Bilingual Proficiency

English

Full Professional Proficiency

French

Professional Working Proficiency