JUSTIN ELLIOTT

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Technically driven leader with a devotion to innovative process optimization within projects and departments. Self-made powerhouse with eclectic knowledge across technical leadership, business management, and entrepreneurship. Demonstrated success creating tailored workflow solutions with the potential to reduce costs by up to $700k YoY. Empowering mentor, inspiring and challenging colleagues to perform to the best of their abilities through introspection and goal alignment. Continuous forward thinking to reduce risks, decrease costs, and increase customer trust and satisfaction.

EMPLOYMENT

***Project Manager Technical Lead*, Flex** 2018-10 — Present

- Leading multinational and cross discipline teams of 15 to deliver life altering Class II medical devices.
- Advise external executive stakeholders on reducing program risks related to the integration of Flex deliverables and FDA submission of the final product
- Delivered project within planned 36 month schedule and under $10m budget continuing to be one of the highest profiting programs, quarter over quarter, within both the design and production centers.
- Designed and developed cross-functional workflows using Python, MS Project, and Jira to standardize and automate status updates, saving up to ~$700k within the first year by reducing the average engineering overhead time by ~10% (~4 hours) weekly.
- Reduced deliverable defect rate by ~30% and mitigated major risk by implementing an automated target hardware regression test framework and test-driven development strategy.
- Improved customer satisfaction score by ~20% within a year leading to an additional $1m in new business

***Embedded Software Engineer*, Flex** 2015-10 — 2018-10

- Designed an embedded real-time, multi-core, low-power SW architecture utilizing multitask RTOS environments and OTS software to perform drug delivery with >99% accuracy and <10mA sleep current.
- Mentored at least 3 engineers in development of I2C, UART, SPI, and other drivers for components such as encoders, motor controller, and processor to processor communication.
- Designed embedded asynchronous GUI architecture with multi-language and multi-window support.
- Designed full stack Ethereum block chain solution for a health service IoT prototype.

***Business Owner*, Ignite Art Collective** 2017-09 — 2019-10

- Bootstrapped production company to a $10k monthly revenue within 1 year and partnered with a leading Dallas venue
- Organized and coordinated monthly multi-stage events with 3-month lead time in preparation of 75+ individual contributors and 500+ attendees

***Senior System Software Engineer*, Raytheon** 2015-04 — 2015-08

• Collaborate with customer and subcontracted developers to manage and implement requirements. • Develop system model, using Java in a Linux environment, to verify performance and design decision efforts. • Interview the various software and R&D groups to research design decisions that affect the model performance. • Monitor data overheard of the system by running various simulations and performing statistical analysis. • Manage phase gate reviews for overall software system design and development.

***Software Engineer*, Raytheon** 2011-02 — 2015-04

• Develop multi-threaded OOP in an embedded environment using C++ and Ada. • Implemented built in testing and fault logging to be used for integration, reliability verification, and product lifetime maintenance. • Backup SME for Built In Testing, fault logging, and software based motor controlling. • Perform demos with Chief Engineer, support manned flight tests, and work directly with customer, to integrate system components across hardware, software, mechanical, and system engineering. • Maintain and advance the standards of the embedded real time software product line architecture, consisting of over 15 subsystems. • Create and maintain extensive UML software design diagrams. • Use Waterfall method while progressively promoting Agile development. • Create and perform black and white box testing procedures to verify functional and algorithmic requirements.

***Software Developer*, ARGO** 2011-02 — 2011-10

• Debugged complex problems with languages such as HTML, JS, XML, and Argo proprietary software. • Performed penetration testing to assess all weak SQL injection points.

***Technical Marketing Engineer*, Bio-Synthesis, Inc** 2010-05 — 2011-02

• Managed web team in updating and adding new features to three company websites. This included planning new navigation, search features, and databases. • Documentation and study of internal business activities to help develop ERP/CRM solution. This consisted of recognizing where improvements were needed for efficiency. • Studied keyword searches and visitor trends in Google Analytics to further optimize sites and increase page ranking.
• Oversaw web based marketing while managing a $20,000/year budget.

SKILLS

Business Process Improvement

Project Management

Software Engineering

Software Design

Raytheon

Professional Mentoring

Agile & Waterfall Methodologies

C++

Object-Oriented Programming (OOP)

IEC 62304

Embedded Software

Requirements Analysis

Microcontrollers

Analytical Skills

Systems Engineering

Software Development

Python (Programming Language)

Executive-level Communication

Scrum

Software Verification

Budget Management
Representational State Transfer (REST)
Requirements Engineering
Test Driven Development
Resource Management
Program Management
Software Validation
Computer Science
Product Management
Medical Devices
Real-Time Operating Systems (RTOS)
Continuous Integration
UML
Negotiation
C (Programming Language)
Agile Methodologies
Project Planning
Management
Software Architecture
Design Control
Multithreading
Stakeholder Management
Embedded Systems
Business Development
Cross-functional Team Leadership
Software Documentation
Unit Testing
IEC 60601
Software Project Management

EDUCATION

The University of Texas at Dallas null - Advanced Testing Techniques null - Modeling and Simulation 2013-12 — 2017-12

The University of Texas at Dallas null - Operating Systems null - Data Structures and Algorithms null - Organization of Programming Languages null - Digital Systems null - Microelectronic Circuits null - Electrical Network Analysis null - Embedded Microprocessors null - Computer Architecture 2006-12 — 2010-12

TESTIMONIALS

Catrina Rincon

Justin is a self-made powerhouse, with a heart of gold. While we were creating and running Ignite Art Collective, I got to see his drive, passion, and innovative nature in action. His mind is always on; ticking with new ideas, developing strategies for internal improvement, and discovering the next move to maintain forward mobility. He has a love for research, a thirst for growth, and a vigorous desire to see his team thrive that can, absolutely, not be matched. All the while, he stays humble, shows genuine care in the people around him, and holds himself accountable. Having him on our team is what set our brand apart from the rest, and was fundamental in our success.

Preston Burkhalter

Justin is a rare individual who has the technical skills to build something from the ground up, and the vision to manage a project to completion. We studied together while working on Masters degrees at UT Dallas, and on the projects we worked on together, he was a stellar team member and leader. Our teams always knew we could count on him to deliver on his promises, meet our team deadlines, and present our information both professionally and in a way that non-technical people could clearly understand the highly technical nature of whatever project we were working on. Justin is someone who I'd love to work with again and I highly recommend him for any position.

Robert Simmons, CSM, CISA

It was a pleasure to work with Justin. He was always conscientious of his work. From quality to timeliness, I never had to worry whether or not Justin was going to deliver. Look forward to hearing about his successes as he grows his career!

Michael Lawson

Justin worked on developing and maintaining embedded real-time software applications. He worked all phases of the software process (requirements through system integration and test) as well as collaboratively with other disciplines (systems, test, electrical and mechanical) to solve system issues. Although he followed our in-house development processes, he advocated for improvements to our processes based on other work experience and his masters coursework. I would recommend him for any software or systems position.

Ian Flynn

Justin is a amiable character who will diligently work through his tasks.