

Hector Edmundo Ramirez

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Dynamic IoT Project Manager and Digital Transformation Specialist

SUMMARY

With a passion for driving digital transformation and a specialization in Internet of Things (IoT), I bring a wealth of experience from academia to industry consulting. As a Digital Transformation Manager at ITESO University, I spearheaded over 40 innovative IoT projects, blending Agile methodologies with practical, industry-focused solutions. My expertise extends to leading diverse digital transformation initiatives as an Independent Consultant, where I've successfully implemented complex projects across multiple sectors. As the Founder, CTO, and Technical Project Manager at Technova Digital Lab, I have transformed challenging client requirements into effective digital solutions, showcasing my proficiency in project management and cloud computing. I recently moved to Austin, TX, and am excited to bring my expertise to the local tech scene. I am legally authorized to work immediately with no sponsorship required, ready to contribute to innovative projects and teams.

Key Skills & Achievements

IoT Project Architecture Design:

I've been involved in various stages of IoT solution development, from ideation to prototype and MVP validation, and have developed my own methodology for this. I'm skilled in selecting appropriate technologies across all layers, including sensors, microcontrollers, gateways, protocols, and cloud platforms. This approach is centered on extracting business value from insights, tailoring solutions to specific business needs.

Digital Transformation Project Manager:

I've managed a variety of projects using both Waterfall and Agile methodologies. My experience encompasses web and mobile application development for new business initiatives, emphasizing the analysis and enhancement of business processes prior to technology adoption. This includes not only implementing ERP systems but also designing AI-based automations. Additionally, as a mentor to tech-based startups, I've had the opportunity to experiment with and work on trending technologies, insights from which I later incorporate into my projects.

WORK EXPERIENCE

ITESO UNIVERSITY | Guadalajara, Mexico

Digital Transformation Manager | 01/2020 - 07/2023

- **Professor of Internet of Things:** Spearheaded over 40 IoT projects, integrating Agile and SCRUM methodologies to drive innovation across sectors like Energy and Agriculture, among others. Pioneered a comprehensive IoT Development Lifecycle approach, enhancing project

alignment with industry standards, and led the transformation of theoretical concepts into market-ready solutions, demonstrating exceptional project management and innovation in IoT.

- **Applied Research IoT Project Development:** Spearheaded the creation of a unique IoT project development methodology, blending innovative problem-solving with Agile practices to turn IoT concepts into actionable, industry-focused solutions. This approach emphasized not just theoretical precision but also practical application, ensuring the delivery of value-driven projects within tight deadlines. My leadership in project execution focused on balancing strategic goals with operational efficiency, driving successful outcomes in a dynamic tech landscape.

Labs Operations Manager | 07/2021 - 07/2022

- Managed operations for 18 laboratories at ITESO University's Engineering Department, leading a team to maintain over 250 workstations. Ensured operational efficiency, conducted vendor negotiations, implemented a web-based inventory control system, and optimized network infrastructure. My role involved strategic facility renovations and budget management, demonstrating skills in team management, problem-solving, and technical infrastructure optimization.

INDEPENDENT CONSULTANT | Guadalajara, Mexico | 05/2019 - Present

Strategic Innovation and Digital Transformation

- **Digital Transformation Solutions Architect:** Led transformative digital projects including ERP & CRM implementation using Odoo in the timber industry, developed Forpulapp for image-based wood log measurement integrating UI design and cloud services, and designed an IoT fleet monitoring prototype, showcasing expertise in project management, cloud computing, and innovation across multiple sectors

TECHNOVA DIGITAL LAB | Mexico

Founder, CTO, and Technical Project Manager | 11/2020 - 03/2023

- I significantly impacted business and technical development, leading project management for diverse digital transformation initiatives. My role involved transforming vague client requirements into standardized operations for a meatpacking industry project, efficiently managing a demanding hospital's clinical history control system, and innovatively designing a web-based, open-source solution for a government driver's license system. Additionally, my involvement in organizing an open-source annual conference honed my networking and negotiation skills.

INTEL GUADALAJARA DESIGN CENTER | Guadalajara, MX

Technical Project Analyst, Innovation Office | 05/2018 - 05/2019

- Championed corporate innovation by co-creating and streamlining an internal process to cultivate ideas for executive approval, and orchestrated a national university laboratory network, enhancing collaborative project initiatives and annual event logistics.

Automation Engineer, Linux Graphics | 05/2018 - 05/2019

- Optimized the Jenkins-based automation infrastructure for the Linux Graphics team, leveraging Python and Postman to enhance the reliability of graphics tests across diverse

hardware platforms and Linux distributions, significantly boosting testing efficiency and network operations.

UNOSQUARE | Guadalajara, Mexico

Software Development Intern | 02/2016 - 02/2017

- Collaborated on .NET and Angular-based internal tool development, enhancing technical expertise towards Microsoft Certified Solutions Developer certification, and engineered a Raspberry Pi access control system by crafting a custom Yocto image for efficient kiosk mode operation, demonstrating innovation and technical acumen.

EDUCATION

MSc in Intelligent Multimedia Systems

CIATEQ Research Center | Guadalajara, MX | Graduated 07/2020

- Thesis about business development using open-source technologies, leading to an actual implementation for a company access control system connected to their ERP

BSc Mechatronics Engineering

University of Guadalajara | Guadalajara, MX | Graduated 12/2015

- Graduated as Class Valedictorian
- Two summer research programs, worked on embedded systems and robotics
- Diplomatic internship at the Mexican Consulate in Silicon Valley
- Students representative, member of the general board of the university

CERTIFICATIONS

Certified IoT Practitioner | CertNexus - 02/2023

Certified Cloud Practitioner | AWS Amazon Web Services - 09/2023

Certificate Program in Project Management PMI Methodology | ITESO University - 01/2023

SKILLS

Technical Skills: Internet of Things (IoT), Project Management, API Development, Agile Project Management, Amazon Web Services (AWS), Applied Research, Arduino, Business Process Management (BPM), C++, Cloud Computing, Data Analytics, Database Modeling, Digital Transformation, Docker, ESP32 Microcontrollers, Edge Computing, Embedded Systems, Enterprise Systems, Firmware Development, Information Technology Training, MQTT, OpenAI API, Open Source Licensing, Prototyping, Python, Raspberry Pi, Robotics, SQL, Software Development Life Cycle (SDLC), Strategic Consulting, Technology Evaluation, User Interface Design (UI).

Soft Skills: Cost-Benefit Analysis, Cross-Functional Team Leadership, IoT Project Lifecycle Management, Risk Management, Strategic Business Analysis, Technical Communication, Conflict Resolution, Emotional Intelligence, Solution Selling, Data-driven Decision Making, Crisis Communication, User-centered Design, Problem Solving,

LANGUAGES

- English
- Spanish