Omar Rodriguez, Ph.D.

Passionate, hard-working professional with background in Programming, Data analysis and Testing

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Professional Experience Summary

Senior Product Manager - Bank of Nova Scotia
Toronto, ON | 08/2021 - Present
- ✔ Redesign and optimize credit origination strategies for auto lending portfolio
- ✔ Develop and automate data extraction scripts for MongoDB
- ✔ Train teams on MongoDB Compass and FICO's Decision Modeler
- ✔

Manager, Risk Technology – Bank of Nova Scotia
Toronto, ON | 05/2019 – 08/2021
- ✔ Implemented Caribbean and Canada Collections Score models to improve customer segmentation for decisioning
- ✔ Lead across multi-functional team, ensure timely implementation of Caribbean Score models
- ✔ Designed and implemented an automated software regression testing tool on SAS
- ✔ Reconcile databases across different data sources as part of migration projects
- ✔ Developed tools for rapid data preparation and analysis throughout different testing stages
- ✔ Troubleshoot FICO products, reducing down-time and saving on consultancy costs

Reliability Engineer – GVA Lighting
Oakville, ON | 11/2018 – 05/2019
- ✔ Executed R&D and reliability testing plans using multiple mechanical engineering equipment
- ✔ Created reports communicating findings and recommendations to Engineering team
- ✔ Streamlined the department testing and report procedure
- ✔ Developed standardized test plan per product family

Postdoctoral Research Fellow / Research Assistant – Ryerson University
Toronto, ON | 08/2013 – 11/2018
- ✔ Managed the Clinical Materials and Diagnostics (CMD) lab
- ✔ Secured an NSERC Research Tools and Instruments grant for **C$75k**
- ✔ Developed and characterize novel bioglass coatings for femoral prosthetics
- ✔ Mentored and trained graduate/undergraduate students
- ✔ Developed a novel method for fabricating bioglass-based scaffolds

Validation Engineer – Hospira
San Cristobal, DR | 11/2011 – 08/2013
- ✔ Implemented over 100 product specifications
- ✔ Qualified over 10 new and modified manufacturing equipment
- ✔ Risk-based evaluation of validation change requests, overseeing plant qualification processes
- ✔ Mentored Validation Technicians (2) and Risk Management Validation (1) Technician
- ✔ Investigated root cause to validation and manufacturing-related exception reports

Education

Ph.D. Mechanical Engineering in Biomaterials
Ryerson University, Toronto, ON
09/2013 – 01/2017

M.Sc. / B.Sc. Mechanical Engineering, emphasis in Solid Mechanics
Utah State University, Utah, USA
08/2005 – 08/2010

Professional Skills

Key skills:
Data analysis · JIRA · Root cause analysis · Product testing · Process improvements · Change management Specification assessment · Design of experiment · Equipment validation and maintenance ·Technical writing · CAPA

Computer skills:
SAS · Eclipse · ANSYS · COMSOL · AutoCAD · SolidWorks · MiniTAB · MathCAD · Microsoft Office (Word · Excel · PowerPoint · Visio · Project)

Programming languages and other technologies:
SQL · Blaze · Microsoft VBA · FORTRAN · C++ · Ladder Logic (PLC) (Omron, Allen-Bradley) · Python

Languages

English (fluent) · Spanish (first language) · French (intermediate)

Publications list and references available upon request.