

Daniel Flores

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Profile

Innovator and software engineer with 20+ of experience in the design, development, and implementation of embedded systems. Experienced in all aspects of the business from start-up, development, and operations. A strong believer in lifelong learning.



Work Experience

01/2019 – present
Tucson, United States

Director Of Business Development Safety Hexagon Mining

- Responsible for business development-related activities for the safety portfolio.
- Identify key corporate accounts through different areas, and present our company profile, technical qualifications, and financial offers.
- Able to do client servicing and opening up new sales accounts, manage account service, and develop new sales opportunities.
- Ensure timely delivery of services to clients.
- Maintain strong relationships with customers for future business growth.
- Successfully managed key client portfolio.

02/2010 – 01/2019
Tucson, United States

Co-Founder and CTO Guardvant Inc

- *Co-founder of mine technology start-up focused on the development of advanced computer vision systems for the detection of operator fatigue in mine equipment operators. Start-up was successfully acquired by Hexagon in 2018.*
- *Responsible for all aspects of the business from start-up, development, and operations.*
- Led the development and market introduction of collision avoidance and machine operator fatigue monitoring systems for mining mobile equipment
- Led business development activities such as client proposals and presentations, developed prototypes and turned successful pilots into production systems.
- Built and managed the software and operations organization including software engineering, hardware engineering, and field deployment.

04/2004 – 02/2010
Tucson, United States

Senior Software Engineer Hexagon Mining

- *Responsible for the development of fleet management systems (Jigsaw MineOps) for the mining industry*
- *Design, implementation, and deployment of advanced high-precision GPS machine guidance systems for loading and drilling mining equipment.*
- *Led software development, system customizations, system deployments, and operations related to fleet management and HPGPS product line.*
- Created and maintained technical documentation
- Provided customer support
- Trained and mentored junior engineers
- Excelled in rapid application development and management of technological issues for assigned projects.
- Work closely with clients to establish problem specifications and system designs.
- Used coding methods in specific programming languages to initiate and improve program execution and functionality.



Work Experience

09/2000 – 02/2003
Tucson, United States

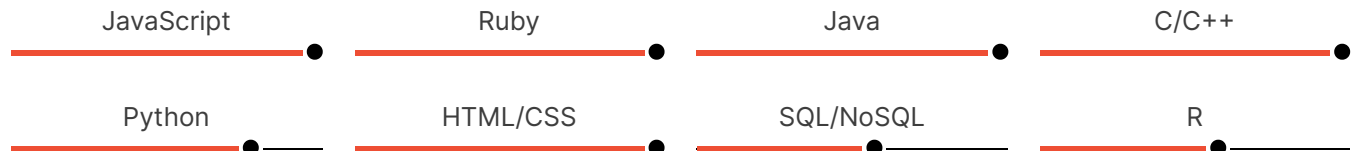
Software Engineer, Rail Systems & Autonomous Haulage Modular Mining Systems

- Designed and developed embedded train control software
- Conducted research on rail control systems to improve safety and efficiency
- Implemented rail control system software according to specifications
- Tested rail control system and autonomous haulage system
- Deployed rail control system



Technical Skills

– LANGUAGES



– TOOLS



Certificates

Full Stack Flex Certification University of Arizona

A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Firebase, Node.js, MySQL, MongoDB, Express, Handelbars.js, and ReactJS.



Education

05/1997 – 05/2001
Tucson, United States

Mathematics | Bachelors University of Arizona

Minor in Computer Science



Awards

05/1998

Space Grant NASA

UG Internship, Planetary Atmosphere Reaction Lab



Patents

CELLULAR PHONE AND PERSONAL PROTECTIVE EQUIPMENT USAGE MONITORING SYSTEM

US 10345103 · Issued Jul 9, 2019

SYSTEM AND METHOD FOR DETERMINING A LEVEL OF OPERATOR FATIGUE

US 9198575 · Issued Dec 1, 2015