Omid Karimpour

Product Lead | Project Lead | Roboticist | Advisor

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SKILLS

Management	Strategies	Product
Communication	Vision Creation	Customer Discovery
Change Management	Partnering Strategies	Product Market Fit
Corporate Visibility	Outsource Strategies	MVP Definition
P&L Management	Product Strategies	Business Analysis
Crisis Management	Go to Market Plan	Risk Analysis
Agile Methodology	Budget Forecasting	Value Proposition
Contract Negotiation	Growth Strategies	Resource Allocation

WORK EXPERIENCE

Present

Product Owner at Advanced Intelligence Systems
- Responsible for all aspects of product management, product development, including **defining, developing, refining, manufacturing, launching and supporting** both hardware and software solutions
- Oversaw the **expansion of agile cross-functional teams** during rapid prototyping, growth and maturity cycles while maintaining a reusable and modular systems. Introduced multiple Autonomous Vehicles and Autonomous Mobile Robots
- Excelled team workflows by creating **processes**, roadmaps, documentation, and **introduced test-driven development**

Robotics Engineer at Advanced Intelligence Systems
- Developed and released features of **GUI, Robot Maneuverability, Teleoperation, Simulation and Development tools** on C++, Python, and JavaScript using ROS, React, Redux, Docker, Kubernetes, AWS Services, WebSocket, WebRTC

2020

Adjunct Faculty at Fleming College

The Mechatronics Course Developer and Lead Instructor: Lectures, labs, exams, and projects
- Hardware and Software Design: Used ARM based microcontroller, various sensors, actuators, PID controller, path planning
- **Mentor to Student Applied Projects:** Utilized the Agile Project Management to bridge the gap between team and sponsor
- Mentored Team Invictus, an Innovation Award winner of the **Bell Innovation and Technology 2019 showcase**

2019

Robotics Researcher at NCART Lab
- Developed and implemented an Autonomous Mobile Robot performing an **indoor localization, SLAM, Navigation**
- Surveyed both LIDAR-based and vision-based SLAM systems such as Gmapping, Hector, Cartographer, and ORB SLAM
- Investigated various scenarios such as stair mapping, glass detection, and exploration problems

2018

Manager & Lead Advisor at SDI Marketing (TMS)
- Managed and oversaw the operations, incentivized, and trained District's stores, employees and lead advisors
- Multiple award winner for top sale performance
- Generated a **314% year-over-year growth**, over $1M in Gross Margin

2015

TEACHING EXPERIENCE

2020

Fleming College Courses
Adjunct Faculty

Mechatronics 1
Advanced Operating Systems
Electronics
Electrical
Applied Project

2019

Ryerson University Course
Graduate Assistant

Human-Robot Interaction

2018

PROJECTS

Personal

UAV Navigation: PX4, Pixhawk, ROS, Gazebo, Control, Mavros, Firmware
Path Planning: BFS, DFS, Dijkstra, A* and RRT
Overlay Image Project: OpenCV, AWS and Continuous Integration and Deployment
Digit recognition: Neural Network and prediction models simulated on MATLAB
Object Detection: Hough transform algorithms with 5 pixels accuracy
High gain and low noise amplifier: Design, simulation, and implementation
ProBee ZE10 Starter: Designed and implemented using ARM Cortex M3

Courses & Certificates

Agile Product Owner Role: Techniques by NASBA, IIBA, PMI
Business analysis for project managers by PMI
Six Sigma Foundations by PMI
B2B Marketing Foundations by PMI
Control of Mobile Robots: Behavioral Control of Mobile Robot
Neural Networks and Deep Learning: L-Layer NN and Logistic Regression
Convolutional Neural Networks: Build & apply a CNN, including recent variations

EDUCATION

2019

Ryerson University
M.Eng. Electrical and Computer Engineering
Final Thesis: **Implementation of SLAM navigation obstacle avoidance and path planning of a robust mobile robot**

2016