

## Contact

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(LinkedIn)

## Top Skills

Computer Engineering

Robotics

Wireless Networking

## Languages

English (Native or Bilingual)

French (Native or Bilingual)

# Amir Nathoo

Software Engineer & Tech Lead | Startup Founder | IoT, Networking, Robotics

Portland, Oregon, United States

## Summary

Accomplished software engineer and technical leader with a proven track record in guiding engineering teams to develop and maintain complex products.

Known for a pragmatic approach to problem-solving and comprehensive expertise in the full software life cycle.

Strong advocate for open source software and active contributor.

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## Experience

Formant

Senior Software Engineer

April 2024 - Present (1 year 5 months)

Portland, Oregon, United States

Working with Robots and other Physical AI.

Sustainic Labs, Inc.

Founder

January 2023 - December 2023 (1 year)

Portland, Oregon, United States

Developed a data-driven, cost-effective crop monitoring system, specifically adapted for small-scale farming scouting activities.

It utilized long-range, low-power LoRa wireless mesh networks and environmental sensors, aiming to provide farmers with real-time field insights to enhance harvest quality and minimize crop waste.

CreateMe

Senior Software Engineer

July 2022 - January 2023 (7 months)

Portland, Oregon, United States

Industrial Automation and IoT. Networking, Cloud Computing.

Connecting apparel manufacturing machines to the internet, through the development of IoT Gateways (on premise and edge devices) and application network protocols.

## Sanctuary AI

### Network Software Engineer

September 2021 - July 2022 (11 months)

Portland, Oregon Metropolitan Area

On a mission to create the world's first human-like intelligence in general-purpose robots by supporting the Systems and Integration team in three key areas:

- Network infrastructure to support distributed software and low latency teleoperation
- Deployment of AI software through continuous delivery and automation
- Integration of low latency audio/video protocols to support the AI solutions

## Designated Driver

### Senior Software Engineer

December 2020 - August 2021 (9 months)

Portland, Oregon Metropolitan Area

Software for seamless teleoperation, every situation and any vehicle.

Tech Stack: C/C++, Infrastructure as Code(Ansible, Gitlab CI/CD), AWS, Golang, MQTT, Websocket, ROS, Docker.

## Ubiquiti Inc.

### Technical Lead

March 2016 - December 2020 (4 years 10 months)

Portland, Oregon

- Backend engineer and technical leader for enterprise video surveillance products with focus on user experience, cyber security, stability, performance and scaling end to end systems.
- Collaboration with internationally distributed engineering teams.

Tech Stack: Java 8, Golang, Javascript, Linux, Docker, MongoDB, WebSocket, RESTFUL Web Services.

## Alticast

### Principal Software Engineer

February 2014 - March 2016 (2 years 2 months)

Portland, Oregon

Agile software development using open source software platform powering video and broadband devices such as Cable/IP set-top-boxes and home broadband internet gateways.

Tech Stack: C/C++, Python, Linux, HTML5, Javascript, Yocto, Git, Gerrit, Docker.

## SeaChange International

Software Architect

2008 - 2014 (6 years)

Portland, Oregon

- Transformed Cable TV industry products from proprietary and standard driven solutions to cloud, open source based whole home platforms powering cable/ip streaming and internet broadband devices.
- Led software architecture and development for Open Cable Application Platform (OCAP) stack and open source based Reference Design Kit (RDK).
- Collaborated with external partners to create open-source reference implementation of the OCAP stack.
- Agile software development and cross functional team collaboration.

Tech Stack: C/C++, Java, Python, Junit, Linux

## Vidiom Systems

Principal Software Engineer

2001 - 2008 (7 years)

Portland, Oregon

- Architecture and development of Open Cable Application Platform (OCAP) stack for several cable video streaming devices. Large and distributed agile software development team.
- Direct collaborative work with US major cable operators: Comcast, Time-Warner and Cox.

Tech Stack: C/C++, Java, JUnit/CUnit, Linux, Windows and various embedded platforms and SDKs.

## Cadence Design Systems (Tality)

Lead Software Engineer

1999 - 2001 (2 years)

Portland, Oregon

GPS Wireless locator device software architecture and development.  
Experimented with Agile software development methodologies.

Tech Stack: C++, Wireless Communication (CDMA/IS95 - TCP/IP), GPS, RTOS, JTAG/Multi-ICE, GDB, LauterBach/TRACE32.

Canal+ Technology  
Senior Software Engineer  
1998 - 1999 (1 year)  
Paris Area, France

Interactive TV Applications.

Philips  
Software Engineer  
1996 - 1997 (1 year)  
Paris Area, France

Interactive Television - User Interface Management Systems.

Renault S.A. (France)  
R&D Engineer  
1995 - 1996 (1 year)  
Paris Area, France

Infotainment - Embedded Human-Machine Interaction R&D. Concept Cars.

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## Education

SUPINFO - The International Institute of Information Technology  
Master's Degree, Computer Science Engineering · (1994)