

Alexandras (Alex) Birutis

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Overview

Systems engineer and business analyst with experience in fast-paced technical environments. Passionate about cybersecurity, IoT, data analytics, and embedded systems. More at <https://alexbirutis.com/>

#Education

DOCTORAL (ARIZONA STATE UNIVERSITY)

- PhD in Cybersecurity (Computer Science) – (In Progress)
- ASU, Ira A. Fulton School of Engineering.
- Research Associate at School of Computing and Augmented Intelligence
- Arizona CyberRange (AzCR) Lead – Designing a distributed hypervisor platform built for the cyber-range with security-focused integration and testing of emergent applications on next generation distributed hardware technologies.

GRADUATE (ARIZONA STATE UNIVERSITY)

- MS Business Analytics – (May 2021)
- ASU, W.P. Carey School of Business, MSBA Full-time Scholarship.

UNDERGRADUATE (ARIZONA STATE UNIVERSITY)

- Major: BS in Computer Systems Engineering (May 2019)
- Minor: Energy Sustainability (May 2019)
- ASU, Ira A. Fulton School of Engineering - President's Academic Full Scholarship.



#Recent Experience

BUSINESS SYSTEM ANALYST - AXON // 2022-CURRENT

- Overseeing the infrastructure to power the delivery of educational content to our first responders on how to safely and swiftly use their life saving equipment. I manage the data integrations between CRMs, learning management systems, and custom software. Technical matter expert and advisor for all of Axon's learning systems. Leading technical research in innovation for e-learning and cyber range solutions.

DEVELOPER II [DATA ANALYTICS ENGINEERING] - TITAN MUTUAL LENDING // 2021-2022

- I worked on integrating desktop software clients, Salesforce, and custom data warehouses into interactive web dashboards to provide valuable real-time analytics and insights into Titan's mortgage lending business. I provided automation of market segmentation and other business workflows. I built RESTful APIs in Apex, Python and C#. Introduced ML data driven decision making processes and optimized data storage and delivery between platforms.

SOFTWARE ENGINEER - AIRA // 2019-2021

- Aira is the startup company that invented FreePower wireless charging. I was responsible for developing the software suite used in the debugging and manufacturing of bleeding-edge embedded technology. Made the custom C#/C++ graphical tools that provided seamless integration with the hardware platform. I also built a web app and HTTP API for distribution and deployment of software and firmware in Django and Javascript. I managed our AWS EC2 VMs and automated deployment pipelines.

AVIATION EQUIPMENT DESIGN TEAM - HONEYWELL // 2018-2019

- I worked on the Cursor Control Devices (CCD) project team with Honeywell to innovate a new way for pilots to interact with navigation consoles, weapon systems, and flight computers. We prototyped new curvi-linear capacitive grid cursor control device technology. I wrote custom drivers and desktop software to provide debugging interface. Focused on embedded firmware development and military spec testing and validation.