

Dear Hiring Manager,

I am writing to express my keen interest in the Senior Systems Engineer position at Aerodome, as advertised on Wellfound. As a highly motivated and results-oriented engineer with over 15 years of experience in communications and systems engineering, I am confident I possess the skills and passion to significantly contribute to your team's mission of revolutionizing public safety with advanced drone technology.

Throughout my career, I have developed a strong understanding of distributed communication protocols, including SIP (Session Initiation Protocol). My expertise extends to WebRTC, allowing me to implement robust real-time video streaming and C2 communication pathways for seamless drone operations. I worked with the TelePresence and WebEx teams within Cisco Systems and architected many core technologies that today look like a shared distributed Hashmap.

In my previous role at multiple startups I founded, I played a key role in creating unique customer experiences based on augmented reality. This experience, coupled with my strong problem-solving skills and collaborative nature, makes me well-equipped to tackle the demanding challenges of designing and implementing critical communication systems for Aerodome's drone-as-first-response solutions.

Beyond technical expertise, I possess excellent leadership qualities. I thrive in mentoring junior engineers and fostering a culture of continuous learning within teams. I am confident that my ability to lead technical discussions and collaborate effectively across functions will be a valuable asset to your team.

The prospect of contributing to Aerodome's innovative mission in the UAS industry is incredibly exciting. I am particularly drawn to the opportunity to construct a swarm of possibilities for what comes next.

I have attached my resume for your review, which further details my qualifications. I am available for a remote interview at your earliest convenience and look forward to discussing how my skills and experience can help Aerodome continue to push boundaries in public safety drone technology.

Thank you for your time and consideration.

Sincerely,

Peter M. Gits

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## Senior Systems Engineer

Innovative Systems Engineer with over 15 years of experience in backend development and cloud computing, specializing in real-time distributed communication systems. At Hawaiian Airlines, I implemented AWS Lambda-based IoT solutions, enhancing operational efficiency by 20%. My work with AI-driven models at McDonald's and Dell showcases my ability to design scalable, autonomous systems. Passionate about drone technology and WebRTC, I am eager to drive innovation at Aerodome, leveraging my expertise to implement advanced communication protocols and mentor a dynamic engineering team.

### Areas of Expertise

- Communication Protocols
- Real-Time Video Streaming
- WebRTC
- C2 (Command and Control) Communications
- Systems Architecture Design
- Integration with External 3rd Party Systems
- Autonomous Operations
- API Development
- Cloud Computing (AWS, Azure, etc.)
- Python Programming
- Node.js Development
- SQL and NoSQL Databases
- CI/CD Pipelines
- Software Testing and Debugging
- Technical Documentation Writing

### Accomplishments

- Implemented touchless kiosks & scanless boarding at Hawaiian Airlines, leveraging IoT for real-time passenger traffic monitoring, demonstrating proficiency in IoT development, innovative solutions and onboarding programs..
- Led the team to pilot AI models at McDonald's, resulting in a 15% reduction in mobile order prep time, showcasing expertise in backend software development and AI integration.
- Optimized OS10 Open Network Initiative at Dell, halving build time and enhancing backend performance, indicating strong skills in microservices architecture and Kubernetes.
- Architected, developed, and deployed multiple mobile enterprise experiences at Adient, demonstrating proficiency in JavaScript, HTML5, and CSS for web technologies.
- Built frictionless login systems at Cisco Systems, showcasing expertise in backend development and security protocols like OAuth2, TouchID, and Digits.
- Founded Cisco Angel Network to facilitate cross functional partnerships with startups, exhibiting leadership and strategic vision in technology initiatives and business strategy.
- Developed analysis packages for infrastructure changes at Dell, indicating strong skills in data analysis and problem-solving.
- Enhanced engineering engagement and ease of use through multi-channel delivery features at Dell, demonstrating expertise in software architecture and development strategies.
- Led Agile projects at Cisco Systems, resulting in significant cost savings and improved efficiency, showcasing proficiency in Agile methodologies and project management.
- Piloted ML models at Hawaiian Airlines to predict flight jeopardy, demonstrating expertise in machine learning and predictive analytics decision making.
- Developed automation validation for web crawlers at GeekGaps.com, showcasing proficiency in test automation frameworks and CI/CD pipelines justifying the business case.
- Designed proximity detection systems for attendants at Hawaiian Airlines, highlighting expertise in IoT development and hardware integration.
- Winner of the Frost & Sullivan 2017 Manufacturing Leadership Award at Adient for outstanding achievements in mobile solutions, demonstrating recognition for innovation in an online retail experience..
- Developed mobile apps with disruptive technologies at GeekGaps.com, showcasing proficiency in mobile app development and emerging technologies, presentation skills, sales, and marketing showcasing broad communication skills.
- Led a high performing GoLang Agile team at Dell to develop analysis packages, demonstrating expertise in Go/Golang and backend software development.

### Career Experience

#### Principal Architect, Hawaiian Airlines, Honolulu, Hawaii

05/2021 - 02/2024

- Implemented touchless kiosks & scanless boarding (20% efficiency gain), reducing wait times & leveraging IoT for real-time passenger traffic video monitoring, filing seats faster.
- Go automated testing frameworks, tooling (72% accuracy) boosted code coverage, functional testing, & reliability.

- ML model (89.3% accuracy) predicts flight jeopardy, aiding late passengers, optimizing airports, and driving business requirements through impactful results.
- Built proximity detection (25ft-4in) for Hawaii attendants, boosting boarding efficiency by 12%

**Senior Innovation Architect**, McDonalds, @CapgeminiAirlines, Chicago, IL **09/2019 - 05/2021**

- Increased mobile dev iteration cycles from 3 to 25 per day by creating a Golang Docker SwaggerHub mock interface for iOS & Android, enabling independent backend dev & test, designed the database schema, as well as the test strategy.
- Led team to pilot AI model reducing mobile order prep time by 15% (improved quality, freshness, reduced waste).

**EngOps Senior Software Architect**, Dell, San Jose, CA **07/2017 - 09/2019**

- Optimized OS10 Open Network Initiative by halving build time, 20% backend improvement (Jira, GitLab, Jenkins), and stronger tracking software with 14% fewer build errors.
- Enhanced engineering engagement and ease of use by 31% through iterating the coding and development of a multi-channel delivery feature in the content management system.
- Led GoLang team to develop analysis package for infrastructure changes, improving trend development and velocity calibration.

**Director of Mobile Strategy & Dev**, Adient Holland, MI (largest car seat manufacturer) **10/2016 - 07/2017**

- Architected, developed, and deployed 3 IOS mobile enterprise experiences by integrating Siri and implementing deep linking to improve the enterprise user experience with regards to wave finding, simplifying the number of clicks and improving the overall user experience.
- Winner of the Frost & Sullivan 2017 Manufacturing Leadership Award for outstanding achievements in developing mobile solutions for IOS and Android.

**Senior Mobile Architect**, AbbVie, North, Chicago, IL (pharma) **07/2015 - 10/2016**

- Designed frictionless login (multi-factor with OAuth2, TouchID, Digits) for iOS app (ported to Android prototype).
- Built "tag & bag" anesthesia canister application for Supply Chain, saving thousands of man-hours locating equipment.

**Market Manager / CTO**, GeekGaps.com, Chicago, IL **07/2013 - 09/2019**

- Built 3 mobile apps (2 iOS, 1 Android) using disruptive technologies & explored wearables with Raspberry Pi & Arduino for proximity-based IoT experiences.
- Repurchased patent, deployed "Digital Graffiti" with geo-fenced coupons for Desigual at Mobile World Congress (creative agency, client acquisition & delivery).
- Augmented Reality:
  - o TripWire for Groupon (never miss a Groupon next to you)
  - o Secret Drink of the Week - Starbucks IOS app Siren -- augmented Reality icon hovers in every Starbucks store, click on it to see the secret drink recipe for that week.
- Built automation validation for a Python web crawler (CI/CD with Git) constructing a MySQL relational database backend using LAMP/PHP,HTML5, and Javascript.

**Senior Software Architect**, Cisco Systems, San Jose CA **08/2009 - 01/2013**

- Founded Cisco Angel Network (pre-seed) to leverage Cisco engineers for early-stage partnerships with innovative startups.
- Led team to build NetLurkers, the first distributed SIP service (Java, Jini), securing 20 patents named "Scalable Infrastructure" and \$4M in Sun equipment (grew team from 5 to 75+) implemented early Agile development processes.
- Led Agile projects, including an AR conference room solution ("Transparent Walls") that saved \$1M+ annually, and negotiated add-on projects through pre-sales communication diagnose and resolve salable issues leveraging deep knowledge of routing skills and public transport stacks.

#### **Additional Titles Held:**

Director of Software, Zymed, Camarillo, CA, (Holter medical device mfg)  
 Clinical Trials - Sr. Architect, Corning Nichols Institute, San Juan Capistrano, CA  
 Marketing Manager - Midwest Information Systems, Inc.

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#### **Education**

**University of Illinois, Champaign/Urbana Masters Computer Science**  
**14 Hrs left to complete**