

Christopher Thomas

Dallas, Texas 75229

Phone: 214-458-5990

Email: cthomas@firemoth.com

Skills

- 11 years' Experience Teaching Industrial Automation and Robotics
- 21 years' Experience in Project Management and Systems Administration
- 13 years' Experience in Program Development
- Expert in PLC Programming, Installation, and Troubleshooting (Allen-Bradley, Beckhoff, Modicon, Siemens)
- Expert Knowledge of Industrial Robot integration and programming for FANUC, Staubli, Motoman, ABB.
- Intermediate skills in Python, Java, C*.
- Expert knowledge in various Additive Manufacturing Processes (FDM, SLA, PDP)
- Proficient Skills in several Welding Technologies (MIG, TIG, Stick, Robotic)
- Proficient Skills in Various CAM/CAD Software Suites (AutoCAD, Fusion360)
- Over 1000 hours in Tele-operation of Humanoid Robots
- Proficient knowledge of ITAR, CMMC, DFARS Compliance Standards.

Certifications

- *Journeyman Nuclear Systems Electrician – USAF – 2006*
- *FANUC Robotics Certification – May 2019*
- *Staubli Robotics CS8C Certification – March 2020*
- *RedHat Enterprise Linux Certified Engineer – May 2013*
- *CompTIA A+ Certification – Aug 2020*
- *Microsoft Certified Professional – Microsoft Windows Advanced Server – Apr 2002*
- *USAF Forklift Certification 6K,10K,14K,25K,40K*
- *AWS MIG Welding Certification 1.01D*
- *OSHA 60*
- *Starbucks Coffee Master Certification*

Relevant Work Experience

10/2023 – Current Head of US Repairs and Maintenance – Dallas, Tx

- Established ITAR/DDTC Compliant Infrastructure for NIST 800-171(53), DFARS 7012/7021 DoD Compliance.
- Conducted Customer facing sales, and support of Commercialized Humanoid Robots.
- Hired and managed teams of engineers and technicians to deploy and maintain the next generation of AGI Androids.
- Managed Operations across North America and 4 countries globally.
- Created manufacturing prototypes for the next generation of bipedal androids.
- Created custom manufacturing cells using Beckhoff Industrial PLCs and Staubli Robots.

***09/2022 – Current Vice President of Production Engineering
1X Technologies, Inc (Formerly Halodi Robotics)– Dallas, Tx***

- Established first US Based office for 1X Technologies, acting as the North American HUB for development.
- Conducted Customer facing sales, and support of Commercialized Humanoid Robots.
- Manage Operations across North America and 4 countries globally.
- Created manufacturing prototypes for the next generation of bipedal androids.
- Developed Android Deployment dashboard, to monitor and track androids deployed worldwide.

***4/2021 – 08/2022 Senior Applications Engineer
1X Technologies, Inc (Formerly Halodi Robotics) – Dallas, Tx***

- Developed Applications for deploying the world's first Humanoid Robots (Androids) in a commercial environment employing AGI (Artificial General Intelligence).
- As the first US Employee for 1X Technologies, built up a team of Applications Engineers across 4 countries.
- Conducted maintenance, repairs, and programming of a fleet of Androids in a Security Guarding Application.
- Wrote programs in C++, Python, and Rust for executing system critical tasks.
- Configured complicated networking schemes and data protection processes to adhere to ITAR regulations.
- Established common understanding of limitations and capabilities of tele-operated avatars through 1000+ hours of hands-on operation.
- Participated in Ansari XPRIZE Avatar Competition, 4th place (utilizing Haptx Gloves).

***05/2009 – Current Electronic Hardware Designer/ Owner
Firemoth, LLC - Arlington, Tx***

- Managed small teams of engineers and designers to accomplish complex projects and goals under budget and on time
- Design and Manufacture Open Source Hardware and Software Solutions to Customer Specifications
- Responsible for customer's Program Development and Logistics planning.
- Developed and built 3 Axis Pick-n-Place Robot using multiple PLCs as PoC. for client
- Routinely Develop in C, C++, .NET, jQuery/JavaScript, JSON, Python, and various iOS/Android IDEs
- Developed and Filed Patent for Automated Control System for Automobiles
- Build, Plan and Deploy Heterogeneous Virtual Servers using multiple virtualization solutions

***9/2020 – 04/2021 Senior Industrial Automation Engineer
Linear Labs, Inc – Fort Worth, Tx***

- Developed Novel Automated Manufacturing Processes for Motor production
- Build, Repair, Retrofit Robotic Equipment for Advanced Manufacturing and Research
- Lead small teams of technicians to perform regular mechatronic development and repair
- Responsible for Production and Development of Advanced Manufacturing Standards
- Maintain Routine record keeping policies and budgets
- Develop Applications in C/C++, CODESYS, Java, Ladder Logic, Python plugins for VR with Robot IK

***10/2016 – 09/2020 Automation Engineering Instructor
Dallas College – Bill Priest Institute - Dallas, Tx***

- Developed Complex Industrial Automation and Maintenance Curriculum for DCCCD
- Build, Repair, Retrofit Robotic Equipment for Manufacturing and Research
- Instruct students and industry apprentices daily
- Responsible for all Program Development, curriculum building, and scheduling of my Dept.
- Routinely participate in student registration and enrollment
- Maintain Routine record keeping policies, tracking student progress, grants and budgets
- Develop Applications in C/C++, Java, Ladder Logic, Python plugins for VR with Robot IK
- Built and deployed System Agnostic control systems for Windows, Mac, and Linux

***06/2018 – Current Owner - COO
Panny Robotics, Inc – Los Angeles, CA***

- Developed Complex Robotic Cinematography System
- Invented a single Automatic Follow Focus Control System for any motor.
- Build, Repair, Retrofit Robotic Equipment – Currently own 11 – 6 Axis Robots
- Consult with and mentor clients, producers, and actors for innovative production solutions
- Maintain routine record keeping policies, tracking staff training progress, budgeting
- Develop in C/C++, Java, and Python programs for Robotic Integrations APIs.
- Produced for Burger King, Wing Stop, and several award-winning musicians to create commercials and music videos.
- Hire, train, and mentor all employees.

***7/2015 – 10/2016 Electronics Instructor / Program Manager
DCCCD - Bill Priest Institute - Dallas, Tx***

- Developed Complex Industrial Automation Training Programs
- Conducted multiple instructional classes for students and customers.
- Perform maintenance and instruction on 3-Phase A/C Power Systems, Motors, VFDs
- Designed and built automated PLC Training Learning Lab for Advanced Manufacturing Processes
- Built and Maintained various FDM 3D Printers.
- Develop in C/C++, Java, Ladder Logic
- Routinely Solder and Repair electronic devices.

05/2011 – 10/2013 Systems Integrations Specialist / Developer
HBS Systems INC. - Richardson, Tx

- Install and configure IBM Servers running RedHat Enterprise Linux, CentOS and SCO Unix.
- Program Windows Mobile and CE Embedded Computer Systems
- Travel to Customer Locations Nationwide to setup Physical and Cloud Based Servers
- Configure and Troubleshoot CISCO VPN Switches/Routers
- Provide daily Customer Service to troubleshoot system critical issues on all Operating Systems
- Manage Mixed Network of Windows and Linux Based Workstations
- Developed Platform Independent Mobile Inventory Management System with Employee Time Clock Database
- Co-wrote C-based Service Programs integral to the interoperability of multiple departments.
- Setup and deployed Payment Processing Systems nationwide.

11/2007 – 5/2009 Satellite Operations Supervisor
WellComm Communications, LLC. - Granbury, Tx

- Managed Small Teams of Technicians and Managers to ensure client locations were fully operational within a narrow window for deployment. (Typically, 2 hours or less)
- Designed and Built Mobile Industrial Wireless VOIP Satellite Communications Platform for the Oil and Gas Industry.
- Setup vendor contracts, managed client sales and marketing.
- Managed multi-state satellite operations between Colorado, Virginia and Texas
- Designed and implemented a paperless billing and invoice system.

11/2003 – 12/2007 Nuclear Missile Systems Electronics Technician
United States Air Force - Minot AFB, ND

- Conducted on-the-job training to teach principles and techniques of specialized tasks.
- Led multiple teams to accomplish complex projects, ensuring goals were met within the constraints of the project, under budget and on time.
- Setup and repaired Nuclear Space Systems to meet mission critical standards
- Adhered to NEC and NFPA safety standards for all Industrial Electrical Applications
- Utilized special tools and precision equipment to troubleshoot nuclear cruise missile systems

Education

- ***BS for Software Development program***
Western Governors University – 90% complete
- ***86 Credit Hours – Community College of the Air Force – Missile and Space Systems Electronics***
- ***6 Credit Hours – Minot State University***
- ***24 Credit Hours – Dallas County Community College District***
- ***53 Credit Hours – Texas State Technical College – High Power and Control Systems***