

# DANIEL HEALY

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<https://thedanhealy.com>

**PROFILE** | Highly skilled, educated, and experienced chief systems engineer, leading the design, architecture, requirements, testing, deployment, and technical documentation phases using methodical and process-oriented approaches. Team leader and manager to systems and project engineers, overseeing multiple projects, garnering team-wide collaboration, and employee development of engineering skills.

**Active Security Clearance: Level "Secret"**

## **EXPERIENCE** | **CHIEF (SYSTEMS) ENGINEER – NORTHROP GRUMMAN CORP**

JAN 2020 - PRESENT

*Northrop Grumman is a global leader in defense technology. They design, develop, build, and support some of the world's most advanced products, from cutting-edge aircraft and next-generation spacecraft to unrivaled cyber security systems and all-seeing radars.*

- Direct daily management of up to two (2) senior-level engineers and numerous junior engineers
- Team lead for SyDECAR, a high fidelity modeling and simulation suite
- Chief engineer and architect for STARS and STRIPES, a containerized approach to large scale simulation execution and management.
- Responsible for implementation, deployment, and migration of STARS & STRIPES within large restricted program
- Utilized MBSE-approach to design of STARS with Cameo
- Implemented extensive documentation for SyDECAR, STARS, and STRIPES using Confluence
- Designed and deployed intensive DevSecOps CI/CD process built within the EDN, producing quick, secure software updates to meet customer needs
- Coordination and leading of daily scrum meetings
- Responsible for training and on-boarding of new hires into SyDECAR IRAD

## **TEAM LEAD / MANAGER, SYSTEMS ENGINEERING – CLEVER DEVICES, LTD**

JAN 2019 – JAN 2020

*Clever Devices is the leader in public transportation technology. They have developed a suite of products to improve both the passenger experience as well as the transit agency's management of technology and data.*

- Direct management of up to eight (8) senior-level systems and project engineers
- Coordination and leading of daily scrum meetings
- Responsive to needs of direct reports
- Oversight of multiple projects to ensure schedule appropriately follows a proven and well-structured process
- Leadership role with other Team Leads to drive company-wide solutions, including processes, training, and tools
- Recognized by executives amongst top-ranking senior systems engineers
- Designed and deployed internal web-based tools system benefiting company-wide engineering use
- Co-lead team of India-based developers to develop software coding and deployment standards using Python, Docker, Git, technical documentation
- Leading expert of Docker-based containerization systems and within company, collaborating with multiple departments to provide design guidance
- Chair of multiple initiatives including systems deployment standards, requirements management, technical and design documentation, test IT systems, and more

**EXPERIENCE  
(CONTINUED)**

**SENIOR SYSTEMS ENGINEER – CLEVER DEVICES, LTD**

MAY 2017 – JAN 2020 & FEB 2011 – JAN 2015

- Senior technical leadership of transit-based technology projects totaling over \$100M
- Systems design, architecture and deployment of large scale on-vehicle technology and IT systems
- Responsible for defining, writing, and reviewing customer needs and functional system requirements
- Responsible for the entire system engineering development life cycle: concept design, preliminary design, detailed design & development, production, operations & support, and retirement & disposal
- Creation of full and subsystem acceptance test procedures (ATP)
- Design and development of interface control documents (ICD), integrating with multiple external vendors
- Creates and maintains programmatic and technical documentation to ensure efficient planning and execution
- Responsible for management of requirements, interfaces, and changes, as well as feasibility studies, trade analysis, and risk analysis
- Implement performance and reliability analysis of the end to end system

**CHIEF TECHNOLOGY OFFICER (CTO) / OWNER – HEALY TECHNOLOGIES LLC**

JAN 2008 – PRESENT (FULL TIME FROM JAN 2017 – SEPT 2017)

*Healy Technologies is a business technology solutions and services company, offering both newly designed and COTS solutions which meet business needs. Systems engineering and design services offered when new and patent-able technology is possible.*

- Systems design and engineering effort for major car wash provider in Virginia Beach, VA
- Providing enterprise-level web hosting services using innovative and self-designed container-based solutions
- Established the business and company's technical vision
- Developed the company's product roadmap and infrastructure
- Using strategic planning, research, and performance testing, chose and qualified the company's IT infrastructure and internal and external processes
- Build, design, and implementation of two on-site hosting locations, including server rack, networking infrastructure, custom built servers, and disaster recovery solutions
- Drove integration through the development cycle by providing input and clarifying the customer requirements for design, integration, deployment, testing, and support phases
- Perform Root Cause Analysis on operational constraints of all complexities to develop and implement solutions both internally and externally
- Proficient in creating and maintaining all project documentation including system design documents and network architecture with MS Word and MS Visio
- Provided project management using accepted management practices
- Ensuring projects are cost and schedule friendly by tracking expenses and utilizing MS Project
- Responsible for system installation, configuration, and administration for:

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MS Server OS	Docker	Asterisks VoIP PBX
MS Exchange	VMware ESXi	RedHat Enter. Linux
MS SQL Server	VMware vCenter	CentOS Linux

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- Experience installing, configuring, and administrating:

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Cisco Routers / Firewalls	SonicWALL Security App.	Active Directory
Cisco   HP   Dell Switches	VPN (multi-site & client)	Terminal services
SAN (fibre & Ethernet)	Web services	Managed VDI

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**EXPERIENCE  
(CONTINUED)**

**SENIOR SYSTEMS ENGINEER – JOHNS HOPKINS UNIVERSITY**

SEPT 2015 – MAY 2017 (FULL-TIME)

*Johns Hopkins University is a leading university on nearly all educational fronts. JHU is part of the larger Johns Hopkins enterprise which is serviced by a single IT department, IT@JH.*

- Systems design / architecture and deployment of large scale web related technology and IT systems
- Responsible for full systems engineering lifecycle of next-generation web hosting system, which will service hundreds of users and departments across the enterprise
- Lead engineer responsible for EPIC MyChart and CareLink web hosting systems, servicing hundreds of thousands of users
- Lead engineer within Enterprise Web Hosting group who strives to work with colleagues to improve their processes, documentation, testing, and engineering skills
- Designer of successful initiative to replace defunct documentation system
- Develops next-generation SLA for Enterprise Web Hosting
- Design and implementation of Docker-based enterprise web hosting solution
- Drives revenue into department by taking initiative to work closely with other group to migrate projects from self-hosted to enterprise hosted

**LEAD ELECTRICAL ENGINEER – ZERO POINT INC.**

JAN 2008 – FEB 2011

*Zero Point offers specialized products and training for the explosives ordnance disposal (EOD) industry. Products including real-world training devices as well as tactical tool kits.*

- Developed business IT and engineering standards for newly formed company
- Responsible for IT profile and administrator of multiple location business
- Developed electronics training curriculum used to train nationwide bomb squads, US Navy and Army EOD units worldwide
- Instructor of electronics training, as well as hands-on lab creator and manager, including:
  - Effective and easy to understand lectures
  - Electronics fundamentals
  - Advanced DC circuit diagnostics
  - Complex IED creation with soldering instruction
- Worked closely with government agencies in design, replication, and analysis of sophisticated improvised explosive devices (IED)
- Developed all new electrical designs and products which enhance the EOD and bomb squad community

**ELECTRICAL ENGINEER – INNOVATIONS IN TRANSPORTATIONS, INC**

JAN 2004- DEC 2007

*Innovations in Transportations (INIT) is a worldwide provider of public transportation technology solutions.*

- Lead engineer for the COPILOTpc Mobile Computer and PIDstation Wayside Bus Signage for North America (Products of INIT, INC.)
- Part of development team for the GPSgo, a GPS receiver that incorporates a gyro and interface to vehicle odometer to simulate GPS coordinates when reliable satellite information is unavailable
- Skilled with design, coding, and implementation of PIC microprocessors
- Hundreds of hours spent on the electronics bench designing, testing, and troubleshooting sensitive computer and RF hardware down to the PCB level
- Involved in many RF projects, including Conventional, Trunked, GPRS/GSM, Digital, and IP based radio systems

**EDUCATION** | **UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE** – BALTIMORE, MD  
M.S. SYSTEMS ENGINEERING & INFORMATION TECHNOLOGY

**OLD DOMINION UNIVERSITY** - NORFOLK, VA  
B.S. ELECTRICAL ENGINEERING TECHNOLOGY  
MINOR: ENGINEERING MANAGEMENT

**TIDEWATER COMMUNITY COLLEGE** - VIRGINIA BEACH, VA  
A. S. ELECTRICAL ENGINEERING TECHNOLOGY

**CERTIFICATIONS** | **DOCKER CERTIFIED ASSOCIATE**  
**CALTECH MODEL BASED SYSTEMS ENGINEERING**  
**COMPTIA SECURITY+**  
**COMPTIA SERVER+**

**PROFESSIONAL MEMBERSHIPS** | International Council on Systems Engineering (INCOSE)  
Institute of Electrical and Electronics Engineers (IEEE)

**COMMUNITY INVOLVEMENT** | Founder and leader of local Systems Engineering Meet-Up group  
Founder and leader of Baltimore Linux Users Meet-Up group (+600 members)  
Involvement in local chapter of INCOSE SE group  
Participation in local WordPress conferences  
Board of Directors member for Ohio-based non-profit organization

**PERSONAL ACHIEVEMENTS & HOBBIES** | Marathon finisher, including notable Marine Corps Marathon and Shamrock Marathon  
Triathlete finisher  
Team cyclist from Baltimore to Key West  
Involvement in many local non-profit orgs furthering young adult cancer support  
Implementation sophisticated smart-home and DVR monitoring system  
Pursuing private pilot license  
Successful rebuild vintage BMW engineer  
Rehab of vintage travel trailer camper