

# Roy F. Flacco

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## Summary

### DevOps Engineering, System / Network Administration, System Management

- Very experienced Senior DevOps Engineer. Has designed, developed, deployed, and maintained networked server systems for over 20 years. Has deep familiarity with Linux, Unix, and Windows in commercial and industrial environments, custom and commercial secure applications, internet and intranet websites, and has managed System Administration departments in addition to technical responsibilities.

### Engineering

- Seasoned and accomplished Senior System Engineer, with deep experience in analog and digital electronics for computer and non-computer applications, and both system and application software. Has designed and delivered commercial, industrial, aerospace, and scientific products, software for Unix/Linux, Windows, Web/CGI, and embedded systems, hardware for commercial and industrial systems, network systems, data storage peripherals. Experienced technical team leader and manager.

## Experience

- **DevOps Engineering, System / Network Administration**

Decades of experience with Linux, Unix, and Windows networked systems  
Network architecture, security, resources, planning  
Server, application, website design, implementation  
Development and deployment of secure systems for customers, clients  
Coordination of international sites, advising top management  
Management and technical direction of System Administration

- **Software Languages, Operating Systems, Command Languages, Tools**

Unix, Linux, Windows, OS X, embedded OSes  
ANSI C, Shell script, HTML, CGI, Visual C & Basic, Assembler  
Software development tools  
Network administration tools for Unix, Linux, Windows  
Website design, development, management, CGI. NIC handle: RF878  
CAD tools, OrCAD, graphical editors, office productivity  
Technical documentation tools, source control

- **Digital and Analog Hardware**

Standard and proprietary computer systems and networks  
ARM-7, x86, 68K/680x/650x CPUs, memory, storage, peripherals  
USB, FireWire/1394, PCMCIA, PCI, ISA, GPIB, STD, iSBX busses  
Interface / conversion circuitry for digital and analog systems  
Embedded system controllers, CPUs, FPGAs  
Amplifiers, converters, controllers, sensors, transducers, actuators  
Signals from microvolts to 440 VAC, frequencies DC-GHz  
US Patent 9,252,748 (2016) Passive Capture Adapter Circuit...

## Employment History

GrammaTech, Inc.  
[www.grammatech.com](http://www.grammatech.com)



**GRAMMATECH** 2013-present

**Senior DevOps Engineer** for a leader in advanced cyber-security research and software assurance tools, including static analysis and related technologies. Responsible for a network of Linux, Windows, and Unix servers, engineering and office users, secure websites, and infrastructure.

MCCI Corporation  
[www.mcci.com](http://www.mcci.com)



2005-2013

**Director / Senior System Administrator** for a technology-driven software company specializing in USB, embedded systems, PCMCIA, real-time O/S, test systems, device drivers, evaluation platforms. Led the Sysadmin team responsible for a network of Unix, Windows, Linux, and Sun servers, engineering and office users and a dozen engineering teams internationally, secure websites, and network infrastructure.

WoodDuck Computer Consulting  
[www.wdcc.com](http://www.wdcc.com)



1988-Present

**Independent Consultant** Custom software applications, device drivers, libraries, utilities. Unix, Linux, and Windows system administration; engineering facility network admin. Commercial website design, setup, maintenance; content generation, CGI development. Design of personal computer peripherals, data storage hardware, software. Satellite hardware, ground station hardware, software. Industrial hardware, software, test systems. Power station biological monitoring. Bioacoustic location software. Remote technical support for commercial and industrial clients.

Glyph Technologies  
[www.glyphtech.com](http://www.glyphtech.com)



2001-2005

**Director of Engineering and System Administration** High-end professional digital audio storage and distribution systems. IEEE-1394 (FireWire) storage subsystems. Collaborative real-time performance networked digital audio delivery system. Design and administer corporate server farm of custom-built and commercial hardware (Linux, Windows), with Samba and AppleShare support for user workstations. Design, write, and maintain corporate Internet website (Apache on Unix), and Intranet website for technical document control system (Apache on Linux). Write and maintain software for testing, production, technical documentation control. Establish and administer engineering/test standards, design guidelines.

Moore Computer Consultants Inc.  
[www.mcci.com](http://www.mcci.com)



1995-2001

**V.P. Hardware Engineering, System Administrator** for a small company specializing in USB, embedded systems, PCMCIA, real-time O/S, test systems, device drivers, evaluation platforms. Supervised hardware design/development projects, designed products, wrote driver and test software, installed test systems. Administered a Unix/Windows engineering development network and secure website for proprietary and customer data.

Databook Inc.  
[www.databook.com](http://www.databook.com)



1993-95

**Manager of Hardware Engineering** for a pioneer in PCMCIA (PC-Card) personal computer data storage peripherals and controllers. PC peripherals for volume production and customer evaluation.

Utilities, Unix/PC test suites for debugging and product/system test. Databook was subsequently closed.

**Ithaco, Inc.**  
[www.ithaco.com](http://www.ithaco.com)  **1987-88, 1981-85**

**Senior Systems Engineer** Satellite subsystems, attitude control components, computer spec/design. Infrared earth-radiance sensors. Mil-spec, high-rel hardware design, analog signal processing. Engineering system administration, documentation control. Spacecraft test systems, worst-case / failure-mode analyses. Ithaco was subsequently purchased by **Goodrich Optical and Space Systems**.

**CompuDAS Corporation**  
[www.compudas.com](http://www.compudas.com)  **1985-87**

**Senior Engineer** Real-time industrial control systems. Award-winning process control computer, in continuous production and use since 1985. System hardware, system software, application/test software, system/network administration. Jet engine test system hardware, software. Ultra-linear frequency-to-voltage converter. Custom applications, utilities, turnkey system packages.

**Borg-Warner Electronics 1978-81**

**Senior Engineer** Real-time microcomputer-based industrial motor controls. 3-phase AC power conversion hardware, embedded system hardware, software. High-horsepower inverter test systems. BWE was subsequently purchased by **Emerson Electric Co.** industrial drives division.

**Drexel University**  
[www.drexel.edu](http://www.drexel.edu)  **1974-78**

**Head of College of Science Electronics Shop** Design of custom hardware, software, computer systems for research and instruction.

**Staff Instructor** Department of Physics. Taught electronics, night school.

## Awards and Publications

- 1986 National "Excellence in Design" Award (3rd), Design Engineering
- Flacco, "Process Control Board", Measurement & Control, April 1987
- US Patent 9,252,748 "Passive Capture Adapter Circuit For Sensing Signals of a High-Speed Circuit", Feb. 2016

## Education

1975 B.S. Physics (Honors), Drexel University, Philadelphia, PA.

## Personal and Contact Info

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**Web:** <http://www.wdcc.com>

**Citizenship:** USA  
**Health:** Excellent

**Hobbies:** Music, alternative energy systems, house-building, home computers/networks

**References:** supplied upon request.