

Barry Drogin

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Important: Barry is currently working full-time and is only available for small after-hours consulting contracts.

Professional Profile

Manager of in-house personnel and outside contractors, consultants and vendors, supervising over \$25M in simultaneous projects; practical product hardware/software design and test experience

Chronology and Titles

- SUPERSTRUCTURES, Director, Non-Destructive Testing & Evaluation, 2007-
- Drogin Consulting, Consultant, 2003-2006
- MTA Bridges & Tunnels (TBTA), ITS Project Manager, 1998-2003
- Cox & Co., Senior Electrical Engineer, 1995-98
- Union Biometrica, Inc., Consultant, 1994-95
- Sienna Biotech, Inc., Director, Electronic Hardware & Software Engineering Group, 1993-94
- Dentsply/Equipment Division, Project Engineer, 1989-93
- Manhattan College, Engineering Instructor, 1988-89
- Technical Career Institutes, Engineering Instructor, 1985-88
- The Cooper Union, Graduate Student/Drogin Consulting, Consultant, 1985
- Advanced Systems Development, Electrical Engineer/Programmer, 1981-84
- The Cooper Union, Undergraduate Student, 1979-82

Management Experience

- As Director – SUPERSTRUCTURES
 - Administer 3-year \$1M School Construction Authority term contract
 - Manage in-house NDT&E Quality Management System
 - Train in-house architects, engineers, and conservators in NDT&E equipment, procedures, and standards
- As Director - Sienna Biotech
 - Managed 7 direct reports: engineers, programmers, technicians, draftsmen
 - Managed outside consultants, vendors
- As ITS Project Manager - MTA
 - Managed 5 prime contractors: Transdyn, TransCore, Dunn, Parsons Brinckerhoff, PTG
 - Managed 3 subconsultants: Gannett Fleming, ETC (MBE), EPM (WBE)
 - Created \$65M 2000-2004 ITS Capital Program
- As Full-Time Engineering Instructor - Manhattan College, Technical Career Institutes
 - Managed undergraduate college courses in communications, analog, digital, programming, laboratory, probability, calculus, business math; served as IEEE Student Branch Counselor, newsletter editor

Project Experience

- As Director – SUPERSTRUCTURES
 - Completed leak investigations, roof moisture surveys, structural investigations, core clearances, 2007-
 - Completed prototype, manufacture of remote monitoring sensor network software, hardware, 2007-2009
 - Completed prototype of galvanometric membrane integrity mapping hardware, 2008
- As ITS Project Manager - MTA
 - Completed All-Facility ATM IDEAS Software Integration design phase, 2003
 - Completed All-Facility CCTV and Fiber Optic Upgrade Design bid package, 2003
 - Managed TRANSCOM TRANSMIT Expansion Project, 1998-2000
- As Senior Electrical Engineer - Cox & Co.
 - Released Beechcraft De-icing Control Unit, Storage Bank, Boeing Heater Controller, 1997, 1997, 1995
 - Prototyped Infrared Airport De-icing Inspection Camera, MTA Subway Heater Fault Locator, 1998, 1996
- As Project Engineer - Dentsply/Equipment Division
 - Released Prophylactic Center, Ultrasonic Scaler, Dental Imaging System, 1993, 1991, 1990
- As Electrical Engineer/Programmer - Advanced Systems Development
 - Delivered USN Flight Simulator, ChemBank ATM, Range Translator, Hospital Imaging System, 1984, 1984, 1982, 1981

Education

- Master of Engineering, The Cooper Union, 1986, Full-Tuition Scholarship
Electrical Engineering major/concentration in Communications Theory and Coding, GPA: 4.0
- Bachelor of Engineering, The Cooper Union, 1983, Full-Tuition Scholarship
Electrical Engineering major/Computer Science minor, GPA: 3.7
- Bachelor of Fine Arts, Emerson College, 1977-79, incomplete
Theater Directing major/Music Composition minor, GPA: 3.45
- Recent Training
ASNT-TC-1A IR course, GPR training, NYC DOB Suspended and Supported Scaffold certifications, CITE IT course, ITS America Systems Integrator course, ASCE OSHA Construction Safety course, Graphics Press Presenting Data and Information seminar, MTA Business Writing and Public Speaking training

Technical Experience

- Non-Destructive Testing & Evaluation – SUPERSTRUCTURES
Tested roofs, windows, curtain wall, masonry, and concrete for signs of water penetration and accumulation, detection of embedded voids and metal, measurement of thickness and compressive strength
Evaluated NDT&E equipment for fitness of use and accuracy in in-house NDT&E Lab
- Emergency/Incident Management, Homeland Security - Drogin Consulting, MTA
Designed Emergency/Incident Management Systems, Fiber Optic Metropolitan Area Networks (MAN), Surveillance Systems (CCTV, matrix switcher, DVR), Geographic Information Systems (GIS)
Developed Incident/Intrusion Detection, Electronic Toll Collection (RFID) and SCADA (PLC) systems
- Aviation, Automotive and Railroad Electronics - Drogin Consulting, Cox & Co.
Designed Analog, Digital, Microcontroller, Programmable Logic, PC Board hardware and software
Passed FAA conformity, RTCA DO-160 environmental and DO-178 SWQA tests
- Patent Research, Technical Feasibility, Algorithm Development - Drogin Consulting, Union Biometrica
- Medical Electronics - Sienna Biotech, Dentsply/Equipment Division, Advanced Systems Development
Designed Analog, Digital, Microcontroller, Power Supply HW & SW, Manifold and Mold HW
Passed agency and standard environmental tests, including UL, CSA, VDE, IEC
- Military, Banking - Advanced Systems Development
Designed variable aircraft mount, radar simulator and first touch-screen ATM hardware and software
- Software Applications (partial list) - Primavera, AutoCAD (3D), MicroStation, MathCAD, MicroSoft Project, Office Suite, Access and Visual Basic, Turbo C, UNIX shell, DOS batch, assembly, HTML, LISTSERV, etc.

Professional Recognition

- Recent Committee Memberships
ACI TC 228, RILEM TC 216-SAM, COMCARE EPAD Transportation Committee, AASHTO Highway Subcommittee on Advanced Transportation Systems, ITE TIM Leadership Committee, GISMO, NSPE EIT
- Recent Public Speaking Engagements and Publications
AIA CES seminars on NDT&E, NYC Municipal Engineers Society speaker, ITS Cooperative Deployment Network (ICDN) interview, ITS America paper, CITE Systems Engineering course reviewer
- Patents, Awards, Honors
Dental Unit Face Plate Design Patent, MTA Certificate of Appreciation, Dentsply Award for Excellence in Research, Tau Beta Pi Laureate for Diverse Achievements in Music and Journalism:
 - Sole Proprietor, Not Nice Music publishing, over \$7000 in sales, commissions, grants, etc.
 - ASCAP composer, ASCAP+ awards and royalties, NewOp homepage webmaster, C-Opera listserv moderator, NewMusicBox author, New Music Connoisseur Editorial Advisory Board member
 - Editor and writer, professional, community, office and college magazines/newspapers/newsletters

References available upon request

Please visit <http://www.droginconsult.com> for a professional profile, photograph, and links to downloadable formatted resumes, a project list and descriptions, published papers, essays and interviews.