

Joseph D. Mancuso

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CAREER SUMMARY

- MSE Electrical Engineering Systems, University of Michigan and 12+ years subsequent work experience
- comprehensive project, proposal, and enterprise-wide management in research engineering
- design and implementation of signal processing and data exploitation algorithms for sensor systems
- customized software implementation for algorithm evaluation and for data and configuration management
- audio processing algorithms and systems, audio engineering, multi-genre voiceover and music production
- computer expertise including Matlab, C, Perl, UNIX, MicroSoft products, audio and graphics software
- U. S. Citizen with active DoD and recent TS/SCI clearances

EDUCATION

- MSE Electrical Engineering Systems, University of Michigan, Ann Arbor, May 1996 (1½ years)
- BSE Electrical Engineering, University of Michigan, Ann Arbor, December 1994 (3½ years)
- Stuyvesant High School, New York City, advanced program in science/mathematics, June 1991
- Continuing Study, University of Michigan School of Music, Ann Arbor, September 2001 to May 2002

EMPLOYMENT EXPERIENCE

ElectroDynamic Applications (EDA), Inc.

August 2007 to August 2008

Ann Arbor, MI

- Senior Engineer, Program/Proposal & Operations Manager and Facilities Security Officer (FSO)
- EDA conducts research for electric space propulsion and plasma systems, diagnostics, and processing
- worked directly with Executive Management to conduct financial analysis and strategy planning
- responsible for enterprise-wide management structures, tools, policies, operations, and personnel
- responsible for Business Development (BD), proposals, and customer and vendor relations
- managed budgets, schedules, Work Breakdown Structures (WBSs), contracts, and deliverables
- designed, led, and conducted plasma diagnostic investigations in laboratory vacuum environments
- developed and delivered methodologies and automated probes for customized plasma diagnostics
- preparation and delivery of technical reports, presentations, hardware, and software to customers

General Dynamics Advanced Information Systems (GD-AIS), Inc.

March 2004 to August 2007

Michigan Research & Development Center (MRDC)

Ann Arbor, MI / Ypsilanti, MI

- Principal Scientist in Research and award-winning Proposal and Program Manager (PM)
- MRDC (heritage ERIM) innovates advancements in sensor, reconnaissance, and related systems
- coordinated large multi-organization teams spanning diverse departments and industry partners
- interfaced customers, stakeholders, engineering, BD, finance, contracts, security, and other units
- managed cost, schedule, deliverables, and risk for various efforts up to multi-million-dollar scales
- negotiated contracts, subcontracts, Statements of Work (SOWs), and teaming and IP agreements
- developed algorithms for radar, optical (EO/IR), hyperspectral, and advanced sensor systems
- led and investigated data exploitation for diverse sensor data types, platforms, and geometries
- presentation and delivery of technical results and software to customers and stakeholders

Solid Sound, Inc. (SSI)

September 2000 to February 2004

Ann Arbor, MI

- Studio Manager and Sound Engineer; also served in media production, operations, and sales
- SSI represents regional leader in audio production for over 30 years with national clientele
- SSI operated two recording studios and a media production and manufacturing company
- managed highly-multifaceted role in fast-moving, customer-driven, and deadline-critical business
- responsible for customer satisfaction with product quality, production schedule, and shipment
- coordinated all aspects of studio maintenance, booking, pricing, contracts, and personnel
- performed graphic design, accounting, security, and facility- and process-improvement activities
- operated analog and digital hardware- and software-based audio recording and processing systems
- configured signal systems and algorithms for quality production customized to client needs

Environmental Research Institute of Michigan (ERIM)

Summer 1995, July 1996 to July 2000

Ann Arbor, MI

- Research Engineer II; also served in task leadership, website design, and internet server administration
- ERIM had 50-year tradition leading innovation at the forefront of sensor and related technologies
- represented ERIM at conferences and at prime contractor and customer facilities and events
- managed end-to-end planning, execution, documentation, and publishing of major data collection
- administered internet presence and secure servers for ERIM infrastructure and customer contracts
- performed algorithm design, coding, evaluation, and documentation for variety of sensor systems
- designed and led multi-sensor field data collection and investigated multi-sensor fusion methodologies
- published and presented technical results and provided long-term on-site collaboration at customer facility

Independent Performing and Recording Artist

November 1995 to Present

- created many diverse arrangements, compositions, and performances of vocal and instrumental music
- coordinated recording, design, and production of original recordings on CD, vinyl, and cassette formats
- performed booking, promotion, engineering, and production activities for many types of live events
- performed writing, graphic design, and website design and administration tasks for media and promotion
- Songwriter / Guitarist / Lead Vocalist / Creative Director / Founder, eclectic folk/rock project (North)
- Lead Vocalist / Co-Founder, 11-piece swing, blues, and dance ensemble (The Johnstown Cats)
- Musical Director / Scoring, independent film short (*Snowdown*, 1995) and feature (*Play The Muse*, 1996)

Washtenaw Community College

May 2003 to May 2004

Ann Arbor, MI

- Faculty Instructor in Audio Engineering for technical program in Performing Arts Department
- responsible for lecturing, curriculum design, student evaluation, and reporting to Department Chair

Michigan Association for Deaf, Hearing & Speech Services

Summers, 2000 to 2002

Lansing, MI

- Counselor at Camp Chris Williams summer program for Deaf and Hard-of-Hearing youth
- directly responsible for camper itinerary and safety, and for staff support and program enrichment

SELECTED ACTIVITIES AND ACHIEVEMENTS

- Excellence Award for exceptional division-wide management of IT Security Initiative, GD-AIS, 2006
- Excellence Award for winning Proposal Management (\$24M 3-year Program), GD-AIS, 2006
- Published/Presented Author, Federated Laboratories Symposia, 1999, 2000
- Engineer credit on Billboard Top-10 Blues Recording (*Lookin' For Trouble*, Kim Wilson), 2003
- Eagle Scout, Class of 1991
- College-level and ongoing self-directed language study in Italian and American Sign Language (ASL)