



# Joseph Federico NJ

## Joseph Federico's Personal Life

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*Joseph Federico is an avid traveler, hiker, and sports fan. When he isn't cheering one of his favorite New York sports teams like the Rangers, Giants, or Yankees, he catches Broadway shows and musical performances and spends time with his family. He strives to be a devoted father, son, uncle, and friend.*

## EXPERIENCE

### NJ Micro Electronic Testing, Inc..

*September 1978 – Present*

VP & Director Of Operations

Joseph Federico began his work in electronic component testing working for Solid State testing and then joining NJMET Inc in 1978. Joseph Federico developed the Mission: Imposter testing system which was helpful in the development of most counterfeit detection requirements in the electronics industry.

### Solid State Testing

*August 1977 – August 1978*

Test Operator

## EDUCATION

### Department of Defense, U.S. Army ARDEC, Picatinny Arsenal, NJ

*1994 – 1994*

Mil Std 2000 Soldering Technology, Soldering Technology

### Fairleigh Dickinson University

*1982 – 1986*

Bachelor's of Science Degree, Electronics Engineering

### Columbia University in the City of New York

*2015 – Present*

Executive Education, Graduate School of Business

## COURSES

**Counterfeit Components Avoidance Workshop, Components Technology Institute, Salem NH Sept. 2012**

**IDEA Counterfeit Components Training Program, Clifton, NJ August 2012**

**Introduction to AS5553 and Counterfeit Electronic Parts Avoidance Training, SAE International Sept. 2010 (IACET Provider No: 3713)**

**Manufacturing Process Control, Honeywell Engines and Systems April 2005**

**Six Sigma Plus Green Belt Training, Honeywell Engines and Systems April 2003**

**Solderability Requirements of J-STD-001, J-STD-002 & J-STD-003, STI Electronics, Madison AI, Oct. 2014**

## HONORS

**U.S. Tech Magazine Article Appreciation 2015**

*December 2015*

U.S. Tech Magazine, Phoenixville, PA

Article Appreciation for "Issues in Solvent Testing for Counterfeits" Published December 2015

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### **U.S. Tech Magazine Article Appreciation 2014**

*October 2014*

U.S. Tech Magazine, Phoenixville, PA

Article Appreciation for "Issues in Solvent Testing for Counterfeits" Published October 2014

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### **The Italian Heritage Award**

*October 2012*

The Italian Tribune presented by Buddy Fortunato Publisher

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### **U.S. Tech Magazine Article Appreciation 2012**

*August 2012*

U.S. Tech Magazine, Phoenixville, PA

Article Appreciation for "Electrical Testing to Detect Counterfeit Components" Published August 29, 2012

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### **U.S. Tech Magazine Article Appreciation 2009**

*October 2009*

U.S. Tech Magazine, Phoenixville, PA

Recognition for Authored Article, Stopping Counterfeit Parts Before They Do Damage Published October 2009

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### **Champions for Children at St. Joseph's**

*December 2008*

St. Joseph Children Hospital, Paterson, NJ

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### **The "Heartbeat of America Award" Award**

*June 2007*

Rear Admiral Kevin F. Delaney ( Ret. )

Rear Admiral Kevin F. Delaney ( Ret. ) presented Joseph & Giacomo Federico of NJMET Inc with the The "Heartbeat of America Award" Award during NJMET's Special TV Segment Hosted by William Shatner on June 28, 2007

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### **Odem (Diamond) Counterfeit Awareness Recognition, Herzliya Isreal**

*April 2007*

Odem Technologies, Rishon Lezion, Israel

The First Electronic Components Awareness Program Presented in Israel

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### **IDEA Special Publication Acknowledgement IDEA-STD-1010A**

*November 2006*

The Independant Distributors of Electronics Association

IDEA Special Acknowledgement to contribution efforts to the IDEA-STD-1010A Publication

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## **PROJECTS**

### **Issues in Authenticating Military Marked Components - CMSE Conference 2016**

*March 2016 – March 2016*

Presentation on methods to authenticate electronic components intended for military applications. The presentation includes information on testing components, traceability and documentation.

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## **PATENTS**

### **MISSION IMPOSTER Counterfeit Detection**

*Issued November 2007*

United States Reg No: 3,600,760 Ser No. 76-691,552

Consulting Services Provided in Connection with Providing Laboratory Tests for Counterfeit Detection, Namely, Consultation in the Field of Product Authentication and Tracking, To Protect Against Counterfeiting and Tampering, To Ensure the Integrity of Electronic Components, in Class 45(U.S. CLS, 100 and 101)

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## **PUBLICATIONS**

Evaluation Engineering

*November 22, 2017*

**In Memoriam: Jim Raby**

Tribute to Mr. Jim Raby recounting his career from NASA and the US Navy to his founding of Soldering Technology International Inc.

**Solderability and Tinning, Does the Industry Really Know the Difference**

Tinning is the process of dipping electronic component terminations into a bath of molten solder alloy, creating a fresh inter metallic layer between the solder and the base metal and providing a highly solderable surface finish. Solderability testing is designed to determine how well molten solder will flow, or “wet”, on the solderable surfaces. This article explains the differences between the two and when each of the tests should be used.

U.S. Tech

December 8, 2015

**Solderability and Tinning: Does the Industry Know the Difference?**

The purpose and use of solderability vs. tinning services often causes confusion, even within the electronic component testing industry. This article explains the difference and when each process is appropriate.

EE Times Europe

December 14, 2014

**Detecting counterfeit-marked components.**

The sophistication of some counterfeit components requires the use multiple test methods to differentiate the counterfeit from the authentic. Different components require different testings and procedures. Use of the wrong testing procedures for the type of component can result in false positives, incorrectly identifying authentic parts as counterfeit.

U.S. Tech

October 21, 2014

**Issues in Solvent Testing for Counterfeits**

Improper counterfeit component testing procedures can yield incorrect or misleading results. This article describes the correct solvent testing procedures for different types of electronic components.

Test & Measurement World

August 28, 2012

**Electrical testing to detect counterfeit components**

Counterfeit electronic components are an increasing threat to the supply chain, but there is no single test that can detect all counterfeit parts. This article outlines why it is necessary to create a customized test plan—including a full suite of electrical testing—for each component based on its intended use.

U.S. Tech

May 15, 2012

**Testing to Detect Counterfeit Components**

The quality and sophistication of counterfeit electronic components has increased to the point that these fake parts can pass initial inspection protocols. This article explains how NJMET's counterfeit component test program uses a multilevel inspection process to weed out counterfeit components.

20th Century Business Hosted by Jackie Bales

October 20, 2010

**Television Appearance on Counterfeit Detection Fox Business & CNBC**

Joseph Federico and Giacomo Federico appear on 21st Century Business aired on Fox Business and CNBC to discuss current developments in Electronic Component Counterfeit Detection

US Tech

October 1, 2009

**Stopping Counterfeit Parts Before They Do Damage,**

Thanks to a groundbreaking program created at NJ Micro Electronic Testing, Inc. (NJMET), the imitation electronic devices that began infiltrating the industry close to a decade ago can now be detected and stopped. It's important that this happens before they are used in the manufacture of products that could put many projects and hundreds of thousands of lives in danger. The multi-faceted process used to identify counterfeits is described.

Heartbeat of America Hosted by William Shatner

September 1, 2007

**Television Appearance on Counterfeit Detection**

Joseph Federico was invited to discuss NJMET's Counterfiet Detection Program on the Heartbeat of America show in 2007. Joseph Federico and his father Giacomo were also presented with the “Keeping America Strong” award hosted on TV's Heartbeat of America show hosted by William Shatner.

**Accelerated Life Tests Yield Failure Data Fast**

In recent years, much useful methodology has been developed to predict the life of electronic microcircuits using environmental accelerated steady state life testing. Such testing has been of particular importance in the to the plastic microcircuit arena, which has become increasingly important because of the reform mandated by Secretary of Defense William Perry in 1994 under the Blue Print for Change objective. Such acceleration testing experiments can be vital in predicting the operational future and functional performance of either hermetically sealed or plastic encapsulated microcircuits.

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Aerospace Testing

May 1, 2003

**Accelerated Testing on Electronic Microcircuits**

Life testing of electronic microcircuits at higher stress levels than design conditions can yield results more quickly saving time and money. Data obtained from accelerated life testing, when properly modelled and analysed yields valuable information on product life and performance under normal use.

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Evaluation Engineering

May 1, 2000

**Environmental Testing of Plastic Encapsulated Microcircuits**

Cutbacks instituted by the Department of Defense diminished military and aerospace manufacturing of hermetically sealed microcircuits (HSMs). As a result, these industries have reconsidered the use of commercial plastic encapsulated microcircuits (PEMs). This article discusses the reliability tests that are essential for determining if PEMs can be safely used in harsh environments.

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**ORGANIZATIONS**

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**ASTM International**

Starting January 2016

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**GIDEP Government Industry Data Exchange Program**

Starting September 2010

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**IEEE Aerospace**

Starting January 2010

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