


# Tommy Schaeffer

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## Summary

Tommy graduated from Lehigh University with degrees in both Mechanical Engineering and Theatrical Production & Design. In addition to that formal education, he has also extended his post-graduate education in music composition, audio engineering, film production, stage & film performance, and additional training in software engineering. He has always balanced technical endeavors with equal and opposite artistic forces.

He has been studying and performing long-form improvisation since 2003 and dug deeply into the Meisner Method of acting in 2006. He now partners with several other Meisner trained actor/directors in a comprehensive training program and coaches/teaches weekly in Phoenix, AZ.

Tommy is driven by his passion for music, film, and performance and balances this artistic side with a career in audio engineering & mixing for both on-location and in-studio sound recording scenarios. He has been regularly working as an audio engineer in Phoenix since 2007 and has credits for location audio, post-production studio mixing/mastering, original music composition and live performance mixing.

In 2012, he founded Polymathus, LLC, which would finally be "home" for these highly diversified yet tightly correlated pursuits. In 2017, Tommy capitalized on his extensive experience in Information Technology at Fortune 100 companies since 1999 and added a software engineering arm to Polymathus. The company now offers a variety of services across the the sectors of audio engineering and software engineering.

## Experience



### Founder & Executive Director

Sailing for Good, Inc.

Jan 2018 - Present (4 years +)

Exchanging the cumbrous material things for soul-enriching experiences, we are Sailing for Good.

Focusing on content creation, workshops, seminars, adventure programs, and recreational activities in subjects of or relating to sailing, travel, minimalist living, cleaning the oceans and preserving the planet, to enable others to be well, do good, and see the world differently.

Certifications, accreditations, and endorsements:

ASA 101: Basic Keelboat Sailing

ASA 103: Basic Coastal Cruising

ASA 104: Bareboat Cruising

Sailing for Good, Inc.

Be well. Do good. See the world differently.

<https://www.sailingforgood.com>



## Founder & Owner

### Polymathus

2012 - Present (10 years +)

Polymathus is a multi-disciplinary company offering services in software engineering and audio engineering.

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#### ----- Software Engineering -----

Services include:

website development, search engine optimization, and digital marketing.

Portfolio available at:

<https://www.polymathus.com/software-engineering/website-development-portfolio/>  
(more available upon request)

Consulted with small and medium-sized business owners to identify basic website and digital marketing needs that were working for them, and which could be improved to grow and scale their business.

Designed, developed and deployed captivating, engaging and mobile-optimized websites for multiple clients in the LAMP full-stack model.

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Environment and technologies used include but not limited to:

Linux, Apache, MySQL, WordPress, PHP, CSS, HTML, Atom, SEMRush, Structured Data Markup, JSON-LD, Advanced Google Analytics, Google Search Console, Google My Business, Screaming Frog

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#### ----- Audio Engineering -----

Services include:

on-location audio recording & mixing, sound design,  
post-production mixing/mastering, and original music composition & arrangement.

Portfolio available at:

<https://www.polymathus.com/audio-engineering/projects/>

Summary of IMDB available here:

<https://www.imdb.com/name/nm3364636>

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Environment and technologies used include but not limited to:

LogicPro, NativeInstruments, Kontakt, DaVinci Resolve, and field recording gear by Sound Devices, Sennheiser, Lectrosonics, Rycote, Rode, K-Tek, Sony, Yamaha, Motu, and Korg.

Polymathus, LLC

Music | Art | Design | Engineering MADE at Polymathus.

<https://www.polymathus.com>



## **Co-Founder, Board of Directors, Faculty & Performing Artist**

### The Torch Theatre

Jan 2007 - Jan 2013 (6 years 1 month)

#### Highlights

- Performed weekly improv comedy with Searching for X, The Foundation & The Remainders
- Served 2.5 years as Director of the Phoenix Neutrino Project: A Live Improvised Film
- Full-time faculty & instructor for Level I: Introduction to Longform Improvisation since 2006
- Executive board, Technical Director & performer at the Phoenix Improv Festival since 2005



## **Enterprise Web Application Developer**

### Discount Tire

Oct 2006 - Feb 2011 (4 years 5 months)

Participated in comprehensive 25-week training series in the Scaled Agile Frameworks for large enterprises, most of which were directly with Dean Leffingwell, co-founder/creator, on-site with our development & business teams.

Fostered the promotion of Agile Methodologies as a Senior Developer by running daily Scrums, participating in XP (extreme) and paired-programming in a company newly adopting the Agile Framework for the first time.

Excelled as a Senior Developer for the consumer-facing website, tires.com, and led the projects for creating: customer reviews, product sorting & filtering, affiliate/partner landing pages, and prebuilt tire & wheel packages.

Designed, developed and deployed a custom and proprietary store locator used until the business finally approved spending to purchase the API from a company whose core competency was mapping and global coordinate technology :)

Adhered to and enforced coding practices that followed industry standard (software, not tires) Design Patterns.

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Environment and technologies used include but not limited to:

JavaServer Faces, Jakarta Struts, Windows XP, Red Hat Linux, Ant, Maven, Archiva, Hudson, Netbeans, Eclipse, Java SE 1.4 & 1.5, Java EE 5, Java Swing, JDBC, JUnit, XML, Tomcat 6.x, WebLogic 9.x & 10.x, SQL Server 2000/2005, CVS, and Subversion.



## **Senior Consultant, Project Deployment: Best Western International**

### Sogeti

Sep 2004 - Oct 2006 (2 years 2 months)

More than 4,000 independently owned and operated hotels are members of the Best Western International (BWI) community. The hotels are periodically surveyed by BWI staff for information describing the property's offerings and were managed through standard mail and paper-intensive processes.

The Database Automation Project (DBA) provided a solution to BWI that nullified the need for costly manual processes and moved the responsibility of data gathering into the hands of the properties while

simultaneously automating repetitive tasks, simplifying complex ones, and consolidating those that were common across member properties.

The DBA solution provides a single application interface for users at the properties to submit solicitation data that is then stored into one or more of 13 various databases. The application supported input that abstracted 13 legacy databases, providing seamless integration.

Responsibilities:

Collaborate with business analysts to build JavaServer Pages to support solicitation workflows

Implement form level validation within solicitations using the JSP Standard Tag Library (JSTL), scriptlets, and custom Java helper classes

Create Java classes to support underlying business logic of solicitation workflows

Design & develop XML and configuration files in Communiqué to support runtime solicitation authoring and development

Support new team members with project specific training, technology standards mentoring, and participate in peer level code reviews

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Environment and technologies used include but not limited to:

Java2, JDBC, XML, PHP, HTML, JSP, Servlets, JavaScript, Visual Basic, Rational ClearCase/ ClearQuest, ATG Dynamo App Server, BEA Weblogic Application Server, J2EE, EJB, RDBMS, Struts, Sun Solaris, UNIX, Oracle 8i, mySQL, Rational Unified Process (RUP), Unified Modeling Language (UML), Communiqué CMS



## **Senior Business System Analyst, Supply Chain Strategies & Development**

Honeywell

Mar 2003 - Sep 2004 (1 year 7 months)

Oversee the operation and maintenance of the aftermarket parts planning software (XelusPlan) including user administration, database administration, production system enhancements and user training for Honeywell Aerospace Repair & Overhaul facilities

Manage the operation and maintenance of the Weekly Replenishment Report application which calculates and communicates asset requirements to repair manufacturing operations within the entire Honeywell and supplier network

Lead process improvement efforts using statistical analysis, six-sigma strategies, design of experiments and demand management to optimize asset management, reduce inventory and increase customer satisfaction throughout the aftermarket & repair supply chain



## **Enterprise Application Developer, Systems Architecture and Application Design**

Homebid.com

Jan 2001 - Feb 2002 (1 year 2 months)

Transitioned J2EE application from an EJB 1.0 compliant application running on ATG Dynamo 5.0 to an EJB2.0 compliant application running on BEA Weblogic 6.0

Worked with lead developers to institute EJB2.0 standards in a proprietary application that created EJB1.0 compliant bean components, deployment descriptors, and app-server descriptors dynamically based on Oracle database meta-data

Researched and developed a set of J2EE “best practices” and standards for prototype transaction management application

Assisted in modeling both the data layer and the object layer of a transaction management application for the real estate industry

Created object models and database architecture models for new functionality using TogetherSoft modeling and deployment tools

Collaborated with user interface designers and usability experts to develop a template for rapid JSP construction

## **Enterprise Application Developer, Application Development**

Homebid.com

Jan 2001 - Feb 2002 (1 year 2 months)

Developed portable EJB solutions using entity beans, stateful & stateless session beans, servlets, JSPs, custom JSP tag libraries, scriptlets, XML deployment descriptors, and custom java utility classes

Generated EJB modules that leveraged Container Managed Persistence (CMP) and also wrote custom beans that used Bean Managed Persistence (BMP) when those custom models proved more efficient.

Developed image processing servlets with supporting scripts and classes that accommodated user image uploading, automatic re-sizing, and eliminated file system dependencies in a clustered server environment by persisting image byte data to the database

Implemented site-wide administration modules that allowed first-tier clients to view/update their user or company data and modify the site’s look & feel with custom logos and color scheme combinations that were applied immediately in real-time

Built a module that empowered users to extend ownership to a transaction based on a stringent matrix of roles & privileges

Constructed and object sequencing and sorting module that enabled users to manipulate the order of any number of business object arrays including tasks, messages, notes, documents, and service providers

Refined an existing property module to utilize a hierarchical framework of categories, sub-categories, features and attributes

## **Business Analyst & Information Architect, Department of Information Technology**

Homebid.com

Nov 1999 - Dec 2000 (1 year 2 months)

Reported to Director of Product Development

Developed and distilled business requirements to shift a business-to-consumer application (OfferManager v1.0) to a more competitive business-to-business application (OfferManager v2.0 beta) that utilized a radically new revenue model and target market

Collaborated with developers and end-users to create subsequent specifications defining feature enhancements for three major product releases of the business-to-business application (v2.0, v2.1, and v3.0) to accommodate new customers and growing markets

Developed a gap analysis and product design specification to globalize the US-based OfferManager product line for international markets in Australia, New Zealand, and Hong Kong

Developed product design, technical specifications, and information architecture for TransactionManager v1.0, a transaction engine that expanded the OfferManager platform and completed Homebid's "...from-click-to-close" value proposition in the real estate industry

Leveraged the UML and graphic design tools to consolidate 5 levels of requirements documentation into one central product specification artifact



## **Senior e-Business Analyst, Information Technology e-Business Development**

Honeywell

Jul 1998 - Nov 1999 (1 year 5 months)

Reported to Manager of Information Systems, Direct Reports: 1

Analyzed business processes and translated business needs into specific e-business solutions, architectures, and applications

Led project to implement & support a suite of ANSI X-12 standard EDI transactions with over 800 international & domestic trading partners leading to over \$1.4M in annual cost savings and a procurement cycle time improvement of over 82%

Capitalized on over \$545k in annual savings by leveraging the Internet to re-define and execute supply chain functions with partners

Maintained responsibility for the propagation of e-business success through implementation of business-to-business EDI, intranet re-engineering, digital collaboration within trading community, re-definition of technical infrastructure, & data warehousing



## **Lehigh University Campus Manager, University Relations & Recruiting Team**

Honeywell

May 1998 - Nov 1999 (1 year 7 months)

Report to Director of University Relations

Developed/implemented strategic plan to enhance corporate presence that increased on-campus rank from #15 to #2 in first year

Managed annual budget of \$53,000 for distribution to research, scholarships, grants, and corporate events

Sustained corporate relations with targeted institutions by conducting candidate interviews, speaking at information seminars, and hosting university relations events at Engines and other AlliedSignal sites

Contributed to the growth and development of 8 summer interns and 2 fulltime associates through an on-site mentoring program



## **Adjunct Instructor in Mechanical Engineering, Department of Industrial Technology**

Maricopa Community Colleges

Sep 1996 - Nov 1999 (3 years 3 months)

Reported to Industrial Technology Division Chair

Facilitated and supervised Six-Sigma case study teams on process improvement initiatives at 5 partnering companies during instruction of MET 138: Principles of Total Quality Management & Six Sigma

Earned certification with community colleges of Arizona to serve as an instructor in Mechanical Engineering and related courses

Educated over 150 associates in the Fundamentals of Technical Mathematics (MET107) and Algebra & Trigonometry (MET108)

Redeveloped existing course outlines to incorporate industrial examples and utilize personal manufacturing & assembly experience

Modified MET course material to introduce a course to AlliedSignal Inc. (IND170) and trained over 80 aspiring NC Programmers



## **Business Analyst, Strategic Supply Chain Team**

Honeywell

Feb 1998 - Jul 1998 (6 months)

Reported to Director of Supply Chain Strategies

Managed the activities of 17 associates on two project teams responsible for the implementation of a statistically based material flow strategy (SRP) for 650 parts over a 4-month period contributing to 63% reduction in average days-of-supply inventory

Coordinated with software designers and computer programmers to develop a software solution to facilitate SRP implementation efforts of 200 associates on 7 project teams



## **Production Engineer, Aircraft Engine/APU Assembly & Test Department**

Allied Signal Aerospace, Engines Division

Aug 1997 - Jan 1998 (6 months)

Reported to Manager of Continuous Improvement

Designed and implemented a new-mechanic orientation program used to familiarize associates with AlliedSignal Engines' daily engine build procedures, ISO standards/specifications, product applications, career opportunities, and business objectives

Acquired hands-on product knowledge by working as a mechanic on the engine assembly line for 4 weeks



## **Industrial Engineer, Statistical Process Control Department**

AlliedSignal Aerospace

Jul 1995 - Jul 1997 (2 years 1 month)

Reported to Manager of Statistical Process Control

Led 18 on-site process improvement team events yielding, in total, an annual savings of over \$2.4 million, avoidance of 7,323 defects and elimination of 3,413 non-value-added processing steps

Designed & developed application in Access Basic™ (KCM System) to store, manage, and dynamically report capability of processes affecting critical aircraft engine performance parameters

Coordinated deployment and support of KCM System at 26 AlliedSignal Inc. sites in the United States, Canada, Mexico, and Ireland.



## **Designer/Scenic Artist, Wilbur Drama Workshop**

Lehigh University

Aug 1991 - May 1995 (3 years 10 months)

Reported to Technical Director and Director

Designed award-winning set for mainstage production  
(Scenic Designer, "Uncle Vanya", Anton Chekov)

Called production cues during mainstage performances  
(Production Stage Manager, "Servant of Two Masters", Carlo Goldoni)

Designed & produced mainstage effects & pyrotechnics  
(Special Effects Director, "Molly's Dream", "Successful Life of 3", Maria Irene Fornes)

Performed in live, mainstage production  
(Actor, "The Wild Duck", Henrik Ibsen)

Designed and implemented lighting and wiring schematics  
(Master Electrician, "Endgame", Samuel Beckett)

Designed sound effects and music  
(Sound Designer, "The Wild Duck", Henrik Ibsen)

Procured and managed properties inventory  
(Properties Master, "On the Verge", Eric Overmyer)





## **Product/Process Engineering Intern, Industrial Gas Turbines Business Unit**

Howmet Casting Products

May 1994 - Sep 1994 (5 months)

Reported to Manager of Engineering Operations

- Redesigned wax sprue dies to improve material flow, reducing workcell cycle times by 68%
- Conducted product/process analysis using probability, SPC, & metallurgical studies.
- Inspected turbine components using CMM programs and manual workbench equipment
- Compiled and submitted processing technique proposals to customers for approval



## **Metallurgical Technician, Lehigh University Department of Materials Sciences**

Lehigh University

May 1993 - Sep 1993 (5 months)

Diagnosed, repaired, rebuilt, and maintained materials processing lab equipment including vacuum pumps, grinding/polishing wheels, and abrasive cut-off wheels

Performed tensile tests, Rockwell hardness tests, and heat treatment procedures as needed.

## **Education**



### **Lehigh University**

Bachelor of Science, Mechanical Engineering

1991 - 1995



### **Lehigh University**

Bachelor of Arts Minor, Theatrical Production & Design

1991 - 1995



### **Minersville Area High School**

High School, ya know--typical high school stuff

1987 - 1991

## **Skills**

- Film Production • Software Engineering • Audio Engineering • Sound Design • Post Production • Documentaries • Music • Short Films • Recording • Feature Films