

Appendix G

Mike Beebe

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Professional Summary:

I have over 40 years of engineering/management related experiences which cover titles such as technician, designer, engineer, Plant Manager, General Manager, VP of Engineering, instructor/trainer, Adjunct Faculty, Chief Technical Officer, and business owner. I have a strong desire to help others obtain their career goals.

Core Qualifications:**Adjunct Faculty at NC State**

Associate and Bachelor of Science Degrees in Mechanical Engineering Technology
Management experience as Plant Manager, General Manager, & VP of Engineering
Designer of crash dummies, vehicles & components, tooling, appliances, etc..
Managed different engineering groups
ASE Master Certified Technician since 1984
Project lead for several programs, construction of two plants, many new products
Training technicians at auto companies all over the world
High School Sunday School Teacher for 5 years
Electric & Hybrid vehicle experience
Member of the Society of Automotive Engineers Since 1979
Certified Welder

Experience:

5 Years as a mechanic at SOHIO to work my way through North Central Technical College, Plymouth, Ohio 73- 77
Quality control Technician at A Schulman in Bellevue, Ohio 77-78
Tool Designer at Prairie Industrial Design in Columbus, Ohio 79-80
Contracted to Westinghouse to design dish washers, refrigerators, and other appliances
Contracted to Gelzer Systems to design small component assembly lines
Engineering technician building electric cars and doing training classes on vehicle conversions at Dayton Electricar, Dayton, Ohio 80-81

32 years in the automotive vehicle component, proving ground & crash testing, crash dummy development, & manufacturing. Job titles have been Engineer, Engineering Manager, Plant Manager, General Manager, VP of Engineering, and Chief Technical Officer.
During the past 30 years + I have had the opportunity to have worked for the Transportation Research Center in East Liberty, Ohio 81-85, Chrysler Proving Grounds in Chelsea, Michigan 85-86, New Departure Hyatt, Division of GM, in Sandusky, Ohio 87-88, First Technology Safety Systems in Plymouth, Michigan 89-91, the National Highway Traffic Safety Administration in East Liberty, Ohio 92-96, Denton ATD in Milan and Huron, Ohio 1996-2010, and Humanetics Innovation Solutions in Huron, Ohio 2010 to present.

For the past 10 years I have operated Midget Motors as a part time business. This business makes and sells parts for Midget Motors Cars made in Athens, Ohio from 1946 to 1970. We have a small machine and welding/fabrication shop. Midget Motors also has an auto shop in which we work on electric bikes, cars, golf carts, small engine repair, and rebuild cars.

I have been an adjunct faculty member, since Fall 2012, in the Engineering Group at North Central State University

Education:

1977 Associate of Science in Mechanical Engineering Technology, North Central Technical College, Mansfield, Ohio
1984 Bachelor of Science in Mechanical Engineering Technology, Franklin University, Columbus, Ohio
1994 Associate of Science in Electric Vehicle Technology, Jordan Energy Institute, Comstock Park, Michigan
2017 Applied to Drexel University Only College for Master's Program in Engineering Technology

I attended 2 years of engineering related night classes at both Ohio State University and Wright State University before enrolling in Franklin University to finish a Bachelor Degree. Have taken various automotive classes at: several classes at Columbus Technical Institute, Columbus, Ohio; NRI home study course; 2 adult classes in auto shop at EHOVE Adult Career Center, Milan, Ohio; Hybrid Vehicle training at the Automotive Career Development Center in Massachusetts, FAB Lab classes at EHOVE Adult Career Center, Milan, Ohio

Narrative Experience: Michael Scott Beebe

For over the past 40 years I have worked in many Engineering and Management positions which required me to develop my Engineering and Management skills. I have an Associate Degree in Mechanical Engineering from North Central State and Bachelor Degree in Mechanical Engineering from Franklin University. At North Central State where I am currently an Associate Professor, and have taught Associate Degree level for the past 5 years as an adjunct. Since I have been 15, technology positions have always found me. But now I would like to bring all these experiences in and truly put all the final pieces together to better understand and be better able to teach higher level technical courses.

Academically I have always been able to maintain a good grade point average. During my two years at Franklin University I was able to achieve a 4.0. My grade point has increase with more work experience I have had. Since High School I have worked a job at the same time I attended school. It took a little longer, but, I feel this paid many dividends since I was able to practice some of the theories from the classroom, the same time at work. After receiving my degrees, I continued to take different classes that interested me or help along the way in different jobs. Working on cars has always be a hobby which drove me to be a certified mechanic, welder, and another Associate Degree in Electric Vehicle Technology. I have built several electric cars and developed the National Highway Traffic Safety Administration standard FMVSS 305 for electric vehicles. My years of experience in the auto safety industry, has helped me understand the interactions of national and international regulations, manufacturers, insurance companies, and consumer groups. I have chaired many Society of Automotive Engineers committees over the years which has also added to a better overall view of the industry. I have over a dozen patents in the field of the design and use of Anthropomorphic Test Devices (crash dummies).

My strengths have been that I could always lead a group and understand most technical issues. I have also had the opportunity to travel to all major automotive producers around the world which has opened my eyes to different cultures and business practices. I feel these hands on work experiences has will helped me to provide real world scenarios for the students in my classes. I do like to share my experiences and hope they will be of value to all students.

For 2.2 Workplace –Based Learning Experience

While being a full time Associate Professor, I have maintained the role of Chief Technical Officer of Humanetics. Over the past 5 years I have created different possible ways in which some of our students could work on projects with my Employer Humanetics. One method has been to hire the students for part time work which could be completed at the College. Other projects have included both on and off campus work. One of these projects included the design of test fixture and testing newly developed 3D printed internal crash dummy organs and compared them to a porcine equivalent. One student has also been a summer intern. During the Right Signals Grant we have cultivated additional companies which we are going to work on projects which later this year.

Author or Co-Author on the following SAE Papers;

910319 Biosid Update and Calibration Requirements

900377 What is Biosid?

2007-01-1173 Effect on Dummy Repeatability on Numerical Model Accuracy

952730 Evaluation of a Proposed Hybrid III Hip Modification

942222 Survey of Older Children in Automotive Restraints.

962417 Hybrid III Dummy Instrumentation and Assessment of Arm Injuries During Air Bag Deployment

890756 Size, Weight, Biomechanical Impact Response Requirements for Adult Size Small Female and Large Male Dummies.

99SC09 Development and Design of THOR-LX: The Thor Lower Extremity

922520 Development of an Advanced ATD Thorax System for Improved Injury Assessment In Frontal Crash Environments

SAE Standards authored

J1766 Recommended Practice for Electric and Hybrid Electric Vehicle Battery Systems Crash Integrity Testing

NHTSA Standards Authored

FMVSS 305

Seating procedures for FMVSS 208

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Patents

6439070 Chest Band Assembly for Crash Test Dummy

EP3179465A1 Three Dimensionally Printed Internal Organs for a Crash Test Dummy

EP3156989A1 Three Dimensionally Printed Ribs and Method of three dimensional printing of ribs for crash test dummy

US6439070 Rib Assembly for a crash test dummy

8840404 Rib Cage Assembly for crash test dummy

20130000425 Pelvis Assembly for Crash Test Dummy

20160078783 Omni-Directional Shoulder Assembly for Crash Test Dummy

Patents Pending

3D printed foam

Fiber optic measurement system

Daniel Wagner

Office Phone 419 755 4817

Professional Summary:

I have over 20 years of engineering/management related experiences, which cover titles such as designer, engineer, team leader, CAD Manager, VP of Operations, instructor/trainer, Adjunct Faculty, and Assistant Dean. I have a strong desire to help others obtain their career goals.

Core Qualifications:

Adjunct Faculty at NC State

Bachelor of Science Degrees in Mechanical Engineering

Management experience as Engineering Team Leader, Assistant Dean of Business, Industry, and Technology, and VP of Operations

Designer of robotic end of arm tooling, multi-mass isolated vibratory conveying equipment, over highway and agricultural equipment assembly lines, palletizing and packaging equipment for food and consumer product distribution, etc..

Managed different engineering groups, including multi-discipline.

Member of the American Society of Mechanical Engineers Since 1999

Education:

1999 Bachelor of Science in Mechanical Engineering, University of Toledo, Toledo, Ohio

2015 to Present, Master of Science Engineering, MSE Program, University of Toledo, Toledo, Ohio

Narrative Experience: Daniel Wagner

Assistant Dean of Business, Industry and Technology

North Central State College

Mr. Wagner resides in Shelby, Ohio and is actively involved in the area community government and school systems. He is a graduate of the University of Toledo, where he earned his Bachelor of Science in Mechanical Engineering. Currently, Mr. Wagner is pursuing his Masters of Engineering through Toledo. In addition, he has earned certifications from Fanuc as a Certified Educational Robot Training Instructor, multiple AutoDesk certifications and the Manufacturing Skills Standards Council Certified Production Technician Instructor.

Mr. Wagner began his engineering career as an intern working in material handling in a large book printing facility, drawing design updates and quickly moved into working full packaging products. One such project was the design, build and installation of an overhead vacuum assisted bundle loading system. His full time career in engineering began with a packing and material company in Toledo, where he soon was promoted to management, with responsibility as a design cell leader, leading a Mechanical Designer and five Electrical Engineers. From there he moved to Tiffin, Ohio, continuing to be vital in the material handling world of engineering and working with multi-mass isolation conveyers and engineering class chain manufacturing.

In 2004, Mr. Wagner moved to Shelby and became the Vice President of his family owned assembly and finishing company, where he remains today. This position has provided the opportunity to build relationships with area manufactures as a member of the Regional Manufacturing Coalition. The ties to local industry are also strengthened by his current seat on the Richland Area Chamber of Commerce Board of Directors.

During this time period, Mr. Wagner became an adjunct Instructor at North Central State College in their Mechanical Engineering Technology Program. Mr. Wagner became a valued asset at the college, and when the college received funding through a Department of Labor Trade Adjustment Assistance Community College and Career Training Grant, Mr. Wagner was offered a full time faculty position. During this tenure, he developed curriculum and mapped out stacked credentials and pathways in advanced manufacturing.

Mr. Wagner transitioned from full time faculty to Assistant Dean of the Business, Industry and Technology Division, where he has served for the last two years. In this capacity, Mr. Wagner has administrative responsibilities over the Business, Engineering, Manufacturing, Information Technology, and Visual Communications. In addition, he is active in other grant initiatives such as the American Association of Community Colleges Right Signals Grant and the Center of Design and Manufacturing Excellence grant in partnership with The Ohio State University. As well as providing input to CPT curriculum as a member of the MSSC Certification Scheme Committee.