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Curriculum-Vitae

University at Buffalo, The State University of New York:

Graduated 2007

Bachelor of Science Mechanical Engineering

- Mathematical modeling
- CAD/CAE and FEA
- Mechanical design and analysis
- Vehicle dynamics

Work History:

2017 to 2021

Sumitomo Rubber USA - Passenger Car and Light Truck Tire Design Engineer (Design / Project Management)

- Lead engineer on All Terrain tire.
- Evaluated competitor tires and current product.
- Set targets for new product.
- Created new tread pattern in All Terrain category.
- Passed Gate 1 on first attempt (first for Tonawanda plant)
- Passed IATF audit (initial first audit for Tonawanda plant)
- Created work instructions from scratch for CompliantPRO
- Monitored tire transfers from other factories, as well as new product start-up.

2014 to 2017

Goodyear Dunlop Tires North America, Ltd. - Motorcycle Tire Design Engineer (FEA design)

- Conducted FEA/CAE on new tire development and existing tire optimization using Abaqus. Evaluation included new tire construction for performance (force and moment) and durability, new tread patterns, and tire profile changes.
- Design and implemented new tire construction on existing product in the hyper sport category that increased rear mileage ~25%, decreased dry lap times by 1 second, at a lower cost than existing product. These design improvements were applied to next generation product as well as race product.
- Monitored production feasibility while implementing new designs by attending tire builds and individual processes in the plant.
- Coordinated and attended track testing. Reviewed regulatory testing.
- Identified several cost down measures that both improved the product durability on regulatory testing, improved measurable track performance, all at a lower cost.
- Assist in Quality Assurance, Process Improvement, and Cost Down Initiatives with plant personnel.

2008 to 2014

Goodyear Dunlop Tires North America, Ltd. - Tire Development Engineer (New Product Industrialization)

- Coordinated and supervised experimental builds around regular plant operations across multiple business centers.
- Oversaw all OE, Replacement, and Race motorcycle tire development from prototype to final product release.
- Communicated with marketing and design engineers; provided feedback on tire development to both meet design requirements and industrialization.
- Programmed initial machine set-up, wrote work instructions, and train personnel for new equipment and building processes.

1996 to 2002

U.S. Navy Petty Officer 2nd Class

- Supervised and trained personnel in crane operations and maintenance procedures.
- Conducted Quality Assurance Inspections.
- Trained and tested personnel in operation of engineering plants and systems.
- Rated superior in professional knowledge and initiative.
- Awarded Navy and Marine Corps Achievement Medal 1999 & 2002.

Specialized Training:

- Tread Pattern benchmarking, target setting, creation, Sumitomo Rubber Industries, Ltd., Kobe, Japan
- Development tire procedures, Sumitomo Rubber Industries, Nagoya, Japan
- Vehicle Tire testing, Sumitomo Rubber Industries, Ltd., Okayama, Japan
- Tire testing, indoor noise, force and moment, Sumitomo Rubber Industries, Ltd., Kobe, Japan
- Tire Modeling Training, FEA, Dessault Systeme Simulia, Cleveland, Ohio
- Tire Modeling Training, CatiaV5, Goodyear Tires NA, Akron, Ohio
- Development Engineer Motorcycle tires, Goodyear Dunlop Tire Co.
- Road Racing School, Sports Car Club of America
- High Performance Driver Education, BMW Club of America
- Ice Driving School, Audi Club of America

Teaching Experience:

- Department training on competitor benchmarking, vehicle test results, and tread design procedures.
- Departmental training on CompliantPRO and other work procedures.
- Passenger car tire new product launch.
- Wrote work instructions, and trained plant personnel on new building equipment and new procedures.
- Driving instructor for Western New York SCCA.

Research and Testing:

- Modeled and hand built theoretical front tire for Motorcycle Race
- Fundamentally changed rear tire design for Motorcycle Sport and Race category
- Created experimental procedure to evaluate tire balance

- Light Truck and Passenger Car tire snow testing
- Instituted experimental procedure on evaluation of tread compounds
- Motorcycle and Handling, Track Testing, Static and Dynamic indoor lab testing
- Motorcycle Race Tire Track Testing
- Visual inspection on several thousand motorcycle pre-release tires.

Additional Training:

- Structural Analysis of Tires I and II, Goodyear Dunlop Tires North America, Ltd.
- Basic Tire Construction, Goodyear Dunlop Tires North America, Ltd.
- Basic Tire Curing, Goodyear Dunlop Tires North America, Ltd.
- Basic Compounding, Goodyear Dunlop Tires North America, Ltd.
- Motorcycle Tire building, Bias, Radial, and Gear Pump.
- Hand cutting experimental tread patterns.
- On vehicle tire testing, pavement and off-road.

Community Involvement:

- WNY-SCCA, held positions of Solo Chairman and Chief Novice instructor.
 - Chief Novice Instructor WNY-SCCA (2016-2020)
- 24 Hours of LeMons / ChampCar Endurance Series, Captain for winning road race team.
- Formula SAE and Baja, Collegiate motorsports.