Exponent®
Engineering & Scientific Consulting

Andrew Fida, M.S.

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Professional Profile

Mr. Fida's area of expertise includes vehicle engineering, mechanical system prototyping and design, 3d scanning, reverse engineering, and 3d modeling. His experience has been applied to quantifying and reporting of vehicle dynamics, and product development and design.

Prior to joining Exponent, Mr. Fida worked at Toyota Engineering and Manufacturing in the ride and handling R&D group. At Toyota, he focused on quantifying emotional handling quality and identifying the specific components involved in achieving dynamic handling appeal. Mr. Fida also used his expertise in vehicle engineering, design, and prototyping to develop and manufacture universal carbon fiber steering wheels with advantageous weight and stiffness qualities. The designs are based on practical, small-volume manufacturing methods and were validated with component level fatigue and strength testing using bespoke testing equipment and data acquisition.

Mr. Fida earned his M.S. in Mechanical Engineering from the Georgia Institute of Technology. During his studies, Mr. Fida designed and constructed a lightweight roadster with a focus on system design, light-weighting, and suspension kinematics and compliance. As part of his work, he gained experience in a broad range of hands-on activities including CAD (such as Solidworks, Fusion 360, Rhino 3d), fabrication, wiring, composites, vehicle plumbing, and CNC machining.

Academic Credentials & Professional Honors

M.S., Mechanical Engineering, Georgia Institute of Technology, 2013

B.S., Mechanical Engineering, Georgia Institute of Technology, 2009

2009 SEMA (Specialty Equipment Manufacturing Association) Memorial Scholarship Karp award recipient

Licenses and Certifications

SOLIDWORKS Certificate in Mechanical Design

Prior Experience

Engineer, Toyota Engineering and Manufacturing - Ride and Handling, 2011-2019

Patents

US Patent #10,252,593 Vehicle Attitude Modification, September 2019

US Patent #10,054,203 Rotational Inerters, August 2018

