



12750 Commonwealth Drive  
Ft. Myers, FL 33913

**CASEY D. BREEN**  
**SENIOR CONSULTANT**

[cdbreen@engsys.com](mailto:cdbreen@engsys.com)

Mr. Breen is a degreed Mechanical Engineer with a minor in Biomechanics with Engineering Systems Inc. (ESi) in Ft. Myers, Florida. Mr. Breen has experience in analysis of accidents and injuries, testing, research and the operation of on and off-road motorcycle-based vehicles. He has investigated several hundred off-road vehicle accidents. In addition, he has conducted research and testing related to the performance of passenger vehicles, personal watercraft, and recreational marine vessels. His professional experience includes vehicular accident investigation and reconstruction, risk analysis, mechanical design, and product research.

**Areas of Specialization**

Motorcycles, ATVs, Side-by-Sides, Golf Cars, and other Specialty Vehicles  
Automotive and Marine Accident Investigation/Reconstruction  
Accident Data Analysis  
Product Design/Testing  
Risk Analysis

**Education**

B.S., Mechanical Engineering, Minor Biomechanics, University of Florida, 2006

**Accreditations**

The Accreditation Commission for Traffic Accident Reconstruction (ACTAR)  
Traffic Accident Reconstructionist  
May 19, 2017  
Registration Number: 3177

**Professional Affiliations/Honors**

**Society of Automotive Engineers (SAE)**  
**American Society of Mechanical Engineers (ASME)**  
**ASTM International (ASTM)**

## **Positions Held**

### **Engineering Systems Inc., Ft. Myers, Florida**

Senior Consultant, 2018 – Present  
Senior Staff Consultant, 2014 – 2017  
Staff Consultant, 2006 – 2013  
Engineering Intern, 2002 – 2005

## **Technical Reports**

Mr. Breen has conducted investigation and research resulting in numerous technical reports addressing various topics, including:

Accident Reconstruction  
Novice Rider Studies  
Off-Road Vehicle (ORV) Design, Handling and Stability  
Motorcycle Operation, Handling and Accident Reconstruction  
Golf Car, Personal Transport Vehicle (PTV) and Low Speed Vehicle (LSV) Handling/Standards  
Motorcycle Manuals and Safety Information Development  
Motorcycle App Safety Information Development  
ORV Accident Reconstruction  
Recreational Boats  
Human Anatomical Studies  
Personal Watercraft (PWC) Crash Testing  
Recreational Product Accident Analysis and Design

## **Continued Education**

Bosch CDR Tool Technician Training, Institute of Police Technology and Management (IPTM),  
May 2022

Symposium on Traffic Safety, Institute of Police Technology and Management (IPTM),  
Orlando, Florida, June 2019

Applied Vehicle Dynamics Course, Autobahn Country Club,  
Joliet, Illinois, October 2018

Human Factors in Traffic Crash Reconstruction, Institute of Police Technology and Management (IPTM),  
Fort Myers, Florida, November 2019

Symposium on Traffic Safety, Institute of Police Technology and Management (IPTM),  
Orlando, Florida, May 2017

Traffic Crash Reconstruction 1, Northwestern University Center for Public Safety,  
Fort Myers, Florida, May 2014

Traffic Crash Investigation 1, Northwestern University Center for Public Safety  
Introduction to Marine Accident Investigation, American Boat & Yacht Council (ABYC),  
Ashburn, Virginia, October 2011  
The Tire as a Vehicle Component, Society of Automotive Engineers (SAE),  
Troy, Michigan, October 2011  
Tire and Wheel Safety Issues, Society of Automotive Engineers (SAE),  
Troy, Michigan, October 2011  
Investigation of Motorcycle Crashes, Institute of Police Technology and Management (IPTM),  
Ft. Myers, Florida, January 2009  
Occupant and Vehicle Kinematics in Rollover, Society of Automotive Engineers (SAE),  
Fort Myers, FL, January 2009  
Injury Scaling: Uses and Techniques Course, Association for the Advancement of Automotive  
Medicine (AAAM),  
Los Angeles, California, January 2008  
Investigation of Commercial Vehicle Accidents, ESI-Workshop, Presented by David Brill and William  
Dobson (IPTM Adjunct Faculty),  
Ft. Myers, Florida, September 2007  
Vehicle Accident Reconstruction Methods, Society of Automotive Engineers (SAE),  
Ft. Myers, Florida, October 2006  
Injuries, Anatomy, Biomechanics & Federal Regulation, Society of Automotive Engineers (SAE),  
Troy, Michigan, July 2006  
ATV Safety Institute Rider Course, April 2006  
Motorcycle Safety Foundation Rider Course, MSF, June 2004

## **Publications/Presentations**

Guideline for Recreational Power Boat Stability  
The Society of Naval Architects and Marine Engineers (SNAME)  
SNAME/IBEX Symposium  
September 2019  
Technical Review, CPSC All-Terrain Vehicle Research  
Consumer Product Safety Commission (CPSC) Presentation  
June 2019

Recreational Boating, Excessive Speed Research

American Boat and Yacht Council (ABYC)

December 2016

“Applications of Failure Analysis Techniques in ATV Accident Investigation”

Materials Science & Technology (MS&T 2015), ASM International

October 2015

“Risk Acceptance and Root Cause Analysis for Recreational Products and Activities”

Sports & Fitness Industry Association (SFIA) Summit

Phoenix, Arizona, April 2014

“The Sinking of the Ethan Allen: Accident Reconstruction and Human Factors Methodology”

The Society of Naval Architects and Marine Engineers (SNAME)

National Harbor, Maryland, March, 2012

“Demonstration and Description of Yamaha Rhino Novice Operation”

Primary Researcher, April 2008

## **Miscellaneous**

Boys Varsity Basketball Assistant Coach, Bishop Verot High School, Ft. Myers, Florida,  
2006 – 2021

Licensed Motorcycle Operator

PADI Open Water SCUBA Certification, 1995

State of Florida Licensed Boat Operator, 1996

American Motorcyclist Association (AMA) Member

Pleasure Craft Operator Card, Canada, 2025