

# CURRICULUM VITAE

## A. D. STOKES, LLC

A LIMITED LIABILITY COMPANY

ALAN D. STOKES, B.S.E

Forensic Consulting & Accideht Reconstruction

26049 Doughboys Place

Hilliard, Florida 32046

Telephone: (407) 840-5026

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### PROFESSION

Court-Qualified and Accredited Expert in Forensic Consulting & Accident Reconstruction

Specializing in:

- Motor Vehicle Accidents, including single vehicle, multi-vehicle, large & oversized vehicles and equipment, motorcycles, trains, DUI, accidents involving weather conditions, roadway conditions and traffic control devices, pedestrians, and seat belt issues.
- Premises Liability, including slip/trip/fall, industrial accidents, electrical accidents & electrocutions, carbon monoxide poisoning, and fire & explosion causation and origin.
- Accidents & Incidents involving Firearms, including bullet trajectory
- Computer Forensic Cases, including computer crimes, data deletion, cyberstalking, analysis of hardware & software issues

### EDUCATION

- **Bachelor of Science: Major – Electrical/Computer Engineering**
  - University of Florida, Department of Electrical/Computer Engineering (1990 – 1993)
  - University of Florida, Department of Mechanical Engineering (1988 – 1990)

### CERTIFICATIONS AND ACCREDITATIONS

- Accredited: Accreditation Commission for Traffic Accident Reconstruction (ACTAR) #1621

### PROFESSIONAL AFFILIATIONS

- Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
- Member of the Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- Member of Society of Automotive Engineers (SAE)
- Member of Accident Reconstruction Network (ARC)
- Member of the IEEE Vehicular Technology Society Membership (IEEE-VT)
- International Practical Shooting Confederation (IPSC)
- United States Practical Shooting Association (UPSPA)

## FORENSIC CONSULTING EXPERIENCE

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### Forensic Accident Reconstruction/Forensic Computer Expert

- **Accident Investigation, Reconstruction, Analysis & Testimony**
  - Cases including but not limited to single and multi-vehicle or multi-party accidents involving cars, heavy trucks and equipment, tractor-trailers, motorcycles, bicycles, trains, pedestrians, slip/trip & fall, safety evaluation, industrial accidents, electrical accidents and electrocutions, bullet trajectory, roadways, fires & explosions, carbon monoxide, and computer technology
  - Analysis of issues related to investigation and reconstruction of accidents including but not limited to speed and distance calculations, coefficients of friction, systems analysis, seat belt analysis, wheels and tires, vehicle equipment and lighting, signage and traffic control devices, roadway conditions, weather conditions, visibility, and reaction times.
- **Technical litigation support including investigation, evaluation, pre-trial consultation and testimony in the following areas:**
  - Accident Reconstruction (Oral or Written Report)
  - Technical Drawings (AutoCAD) and Aerial Overlays
  - Aerial Photograph of Accident Site
  - 3D Computer Animation of Accident or Incident
  - Crime Scene Investigations (trajectory & positional aspects only)
  - Slip & Fall Accidents
  - Technical Video & Photography
  - Fire & Explosion Cause Analysis
  - Data & Computer Forensics
- **Computer Software, Hardware, and Security Analysis & Investigations**
  - Forensic analysis of computer systems, hardware and software, for hidden images, program modifications, data deletions, data storage, Trojan programs, etc.
- **Forensic Investigation & Reconstruction and Analysis of Crime Scenes and related matters**

## RELATED EXPERIENCES

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- **Mechanical and Electrical evaluation and redesign of existing industrial machine types**
  - Played a vital role in the design of new prototype machines in the process of making Duracell rechargeable NiCd batteries used on the space station
  - Supervised and participated in the design of mobile environmental drilling rigs.
- **Complete design and fabrication of circuit boards and electronic components for automated systems**
  - Design of new automation equipment using Motorola microprocessor / micro-controller boards
  - New product development, product redesign, microprocessor / micro-controller systems design for communications, A/D and D/A subsystems, and purchasing & training programs
- **AutoCAD drafting and design for projects in fields including Architectural, Mechanical, Electrical, Civil, and Industrial engineering**
  - Produced AutoCAD training manual for three divisions of company engineers.
- **Complete development of E-Commerce sites using ASP and Microsoft SQL Server**
- **Development of Software, Hardware and Firmware for Mechanical/Electrical devices.**
- **Consultant/Technical Editor, Visual C++ Developers Journal, Fawcette Technical Publications (1995 – 2001)**
- **Programming Languages: C, C++, Java, Visual Basic**

## WORK HISTORY

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Some of the following positions were as a consultant and were concurrent with other employment.

- Owner/Forensic Consultant, A. D. Stokes, LLC, Gainesville, FL (2001 – Present)
- Forensic Engineer, D.B. Wiggins, P.E., Trenton, FL (1999 – 2002)
- IT Architect, IBM, Inc. (1997 – 1999)
- Consultant/Technical Editor, Visual C++ Developers Journal, Fawcette Technical Publications (1995 – 2001)
- Consultant/Mechanical Engineer, MCAE Technologies, Inc., Atlanta, GA (1995 – 2001)
- Lead Design Engineer, HMP Software Solutions, Inc., Atlanta, GA (1993 – 1995)
- Director of Engineering, Drill Concepts Inc., Jacksonville, FL (1991 – 1993)
- Owner/Consultant, Continuum Consulting, Gainesville, FL (1988 – 2001)
- Mechanical Design Engineer, Gates Energy Products, Gainesville, FL (1988 – 1991)
- Engineering Technician, Gainesville Gas Company, Gainesville, FL (1984 – 1988)

## PROFESSIONAL DEVELOPMENT

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### American College of Forensic Examiners International

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| ➤ <u>Certified Forensic Consultant, CFC® course (CFC01)</u>                      | 2009 |
| ➤ <u>Blood Spatter Interpretation at Crime Scenes (FESU0105)</u>                 | 2010 |
| ➤ <u>Eyewitness Memory for Vehicles (FEFA0305)</u>                               | 2010 |
| ➤ <u>The Daubert Decision: Accident Reconstruction Considerations (FEWI0406)</u> | 2010 |
| ➤ <u>Forensic Engineering Evaluation of Premises Maintenance (FEFA0407)</u>      | 2010 |
| ➤ <u>Causes of Failure: What a Forensic Engineer Looks For</u>                   | 2010 |

### Society of Automotive Engineers (SAE International)

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| ➤ <u>Commercial Vehicle Braking Systems (PD130611ON)</u> | 2010 |
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### Other Specialized Training Courses

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| ➤ <u>Accident Investigation and Loss Control</u>      | 2003 |
| ➤ <u>Industrial Safety and Health Management</u>      | 2003 |
| ➤ <u>Human Factors in Engineering and Design</u>      | 2004 |
| ➤ <u>Technology, Law, and the Working Environment</u> | 2004 |