

SAMANTHA EVANS

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PERSONAL

Born December 25, 1991, Orlando, Florida

EDUCATION

Florida State University, Tallahassee, FL
Bachelor of Science in Biochemistry
Minor in Biology and Mathematics

EXPERIENCE

Cummings Scientific, LLC, Tallahassee, FL
2015-Present

Forensic Scientist

- Review of police reports, witness statements, vehicle data, and other related evidence to reconstruct the accident scene
- Reconstruction of automobile, heavy truck, bus, and motorcycle accidents using field surveys, damage profiling, scale replication, kinematics analysis, vehicle safety system analysis, possible mechanical failure pre-collision, and re-enactment of events
- Computer modeling of vehicular accident and occupant kinematics, MADYMO
- Use of math and physics to calculate factors such as impact and departure speeds, angles and delta-V to show the path each vehicle traveled

Evans Engineering Inc., Orlando, FL
2009-2010

Executive Secretary

- Receive, direct, and relay telephone messages from clients
- Assist in the planning and preparation of meetings, conferences and conference calls
- Compile, copy, sort, and file records of office activities and business transactions
- Maintain and update filing, inventory, mailing, and database systems
- Provide word-processing and secretarial support

SIGNIFICANT COURSEWORK

- Physics - Calculus based Physics I and II with corresponding laboratory experience
- Chemistry - Physical Chemistry I and II, Advanced Analytical Chemistry, Biochemistry I and II with corresponding laboratory experience
- Math - Statistics, Calculus I and II

SKILLS

- Accident reconstruction – Reconstruction of automobile, heavy truck, bus, and pedestrian accidents. This includes the analysis of accident events and physical evidence to determine causation, critical accident events, sequence of events, compliance with procedures, and injury mechanisms. Typical projects include vehicular, construction, and slip/fall accidents.
- Computer based accident reconstruction and simulations – using PC-Crash and MADYMO
- Crash testing – Data acquisition, crush analysis and reduction
- Finite element analysis – using mechanical modeling programs
- Human factor analysis – human perception and reaction times, visibility analysis
- Seat belt analysis – analysis of material evidence to determine if seat belts were operational, if occupants were wearing their seat belts, and if injuries may have been lessened through use of seat belts

HONORS

- Phi Sigma Theta National Honor Society, 2012-2014
- Alpha Epsilon Delta honors group, 2010-2012
- National Honor Society of Secondary Schools, 2009