

Curriculum Vitae

Hannah Van Staveren, B.A.Sc., E.I.T.

Advantage Forensics® Inc. (416) 630-0700

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PRACTICE AREAS

- **Human Factors**
- **Collision Reconstruction**
- **Pedestrian & Bicycle Collisions**
- **Trampoline & Inflatable Play Structure Incidents**
- **Signage, Warnings, & Labels**
- **Nighttime Visibility**
- **Staircase Assessment**
- **Slip, Trip & Fall Biomechanics**
- **Computer Simulation & Animation**

ACADEMIC BACKGROUND

Bachelor of Applied Science, Biomechanical Engineering, Queen's University, 2019

- Undergraduate level courses in Physics, Dynamics, Mechanical Design, Biomechanics, Biomaterials, Human Factors, Ergonomics and Design
- Semester abroad at the National University of Singapore, Singapore, 2017

Certificate in Business, Smith School of Business, Queen's University, 2019

EMPLOYMENT HISTORY

**Advantage Forensics Inc.**, Toronto

*Forensic Engineering Associate*, September 2019 to present

- Member of Human Factors and Collision Reconstruction Teams

**Department of Mechanical Engineering, Queen's University**, Kingston

*Undergraduate Teaching Assistant*, January 2018 to April 2019

- Assisted professors in teaching both project and instruction based undergraduate level courses. Courses included Engineering Design and Practice II (APSC 200), Kinematics and Dynamics (MECH 228), and Engineering Graphics (APSC 162).

**WAM Industries**, Toronto

*CAD Detailer*, May 2016 to August 2018

- Produced drawings for custom retail store fixtures. Reviewed architectural, engineering, and industrial designer drawings. Created BOMs and followed through with production QCs. Coordinated with on-site GCs for unique fixture instalments.



**Venus Concept Canada, Toronto**

*Service Technician and Customer Service Support, May 2014 to August 2015*

- Tested medical aesthetic devices for quality assurance and component reliability. Worked on mechanical/electrical assembly lines. Assisted in filing/preparing documents for FDA submission. Provided customer service and technical sales support.

**ADDITIONAL COURSES, TRAINING & CERTIFICATIONS**

- “Traffic Engineering Series: Applying Human Factors Principles to Rural Intersection Safety”, CARSP Webinar, June 2020
- “Failure Analysis of Product and Mechanical Systems”, Advantage Forensics, Toronto, June 2020
- “Driver Checking Failures Towards Pedestrians & Cyclists: An On-road Study”, CARSP Webinar, June 2020
- “Vehicle Forensics Essentials” series course, Berla Corporation, June 2020
- “PC Crash Training Course: 401 Staged Collisions” online course, MEA Forensics, April 2020
- “Lessons Learned from Using Driving Simulators to Improve Driver Behaviour”, CARSP webinar, March 2020
- “Truck Drivers’ Perceptions of Unsafe Driving Behaviours”, University of Victoria webinar, Feb 2020
- “The Democratization of Video Evidence: Equipping Investigators with Modern Tools and Know-How”, INPUT-ACE webinar, January 2020
- “Distracted Driving: Recent Data & Research”, CARSP webinar, December 2019
- Human Factors and Ergonomics Society (HFES) Annual Meeting, Seattle, WA, October 2019
- “Experts at Trial: How to Maximize (or Minimize) their Effectiveness”, Will Davidson LLP Seminar, September 2019
- Certified SOLIDWORKS Professional (CSWP), 2018
- Canadian National Conservatory of Music (CNCM) First-Class Honours in Grade 10 piano, 2013

**PROFESSIONAL SOCIETIES & ASSOCIATIONS**

Professional Engineers of Ontario, E.I.T. since 2019

Human Factors and Ergonomics Society, member since 2019

**PAPERS, PUBLICATIONS & PROJECTS**

- Design of a Class 3 Boccia Ball Ramp for Man with Cerebral Palsy, Undergraduate capstone project, Queen’s University, 2019
- Design of a Recreational Bouncer for Child with Epilepsy, Undergraduate capstone project, Queen’s University, 2018
- Static Analysis of Elbow Joint Based on Hand Placement During Push-up, Undergraduate project, Queen’s University, 2017
- Ergonomic Assessment of Personal Workspace Design, Undergraduate project, Queen’s University, 2017

**LECTURES & PRESENTATIONS**

- “Relative Velocity Detection and Driver Response Time in Vehicle Following Scenarios: Current Data and Research on Looming Thresholds”, Advantage Forensics in-house seminar, Toronto, June 2020



- “Understanding Forensic Human Factors through Case Study Analysis”, Advantage Forensics in-house seminar, Toronto, April 2020
- “Forensic Engineering Experts Showcase”, Smitiuch Injury Law, Toronto, February 2020