**Paul Hayes**

Las Vegas, NV ♦ (484) 883-8441 ♦ Paul.Hayes7285@gmail.com

**EDUCATION**

**Virginia Polytechnic Institute and State University (Virginia Tech) Blacksburg, VA**

*Bachelors of Science in Industrial and Systems Engineering May 2018*

* Won Innovation and Creativity award for senior design project working with Devil’s Backbone Brewing Company to update data systems from paper logs to digital system, which reduced downtime by 20% while building framework for continuous improvement.

**WORK EXPERIENCE**

**Self-Employed Baltimore, MD/WorldWide**

*Professional Poker Player*  *August 2019 - Present*

* Utilized mathematical and statistical analysis to derive strategies to beat online and live poker games for significant profit
* Analyzed large hand history data sets to develop and implement optimal risk management strategies
* Grew bankroll from $10000 into $63000 over 8 months of work (does not include personal expenses)
* Follow high levels of strict self-discipline and bankroll management to minimize risk of ruin and consistently make positive expectation decisions
* Used freedom of self-employment to travel and play all over the US and Canada
* Gained experience in volatility, risk management, emotional intelligence, and emotional control

**Virginia Tech Transportation Institute Blacksburg, VA**

*Research Associate – Center for Truck and Bus Safety October 2018 - August 2019*

* Modeled human drivers with industry specific CAD software to optimize bus mirror performance
* Performed field work experiments to gather opinions of those using prototype bus mirror technologies
* Performed dynamic vehicle experiments on the Virginia Smart Road
* Worked directly with end users to evaluate the performance of potential new safety advancements in transportation
* Worked directly with government agencies to secure grants and funding for research projects

*Data Reductionist – Quality Assurance*  *March 2017 –October 2018*

* Reviewed work of other reductionists to ensure the highest possible quality and accuracy of naturalistic driving data
* Observed digital video and parametric data collected for various [government-sponsored and proprietary] transportation research projects to enhance transportation safety and mobility
* Used a proprietary software program to observe and document driver behavior and driving conditions under controlled and/or naturalistic settings
* Adhered to a high standard of data security and confidentiality while working with data collected from human subjects

**Apogee Industries Inc. West Chester, PA**

*Industrial Engineering Consultant*  *May 2015 – August 2017*

* Created data creation, organization, and analysis procedures for new inventory system
* Created and implemented procedures for recording, labelling, and storing all rotary dies
* Created and executed training procedures with factory workers to use new inventory system
* Worked with end users to ensure systems addressed their needs as thoroughly as possible

**OTHER**

**Computer Skills:** SQL, R, Python, MATLAB, C++, Java, Discrete Event Simulation.

**Interests**: Poker, entrepreneurship, coding, economics, game theory