GRANT BAUMAN

9212 Manor Crest Lane, Knoxville, TN 37922 | 865-363-7847 | gbauman@vols.utk.edu

SUMMARY

Graduate student in chemical engineering with background in both experimental and computational research.

SKILLS

- Extensive programming experience with Matlab/ Simulink
- Experience with polymer synthesis, characterization, and testing
- Strong familiarity with both laboratory experimentation and theoretical modeling
- Effective organization and presentation of research results through posters, presentations, or technical papers
- Excellent academic record and experience as an undergraduate teaching assistant

RESEARCH EXPERIENCE

1/2017-Present: Undergraduate Research Assistant, *UTK Polymers Group*

- Polymer synthesis using free radical polymerization techniques
- In-situ data collection of chemical and physical reactions using various methods including ellipsometry, FTIR spectroscopy, contact angle measurements, and X-ray reflectivity
- Batch data analysis using methods such as multiple-peak fitting and numerical integration in programs such as Matlab and Excel
- Recipient of two NSF REU Supplements

5/2016-8/2016: Undergraduate Intern, *Oak Ridge National Lab*

- Performed research tasks by operating real-time computer interfaces and modeling complex systems through Matlab and dSpace
- Completed data analysis and presented findings in published paper and poster presentation
- Awarded Best Poster at 2016 Undergraduate Intern Poster Session

EDUCATION

8/2015-5/2019: BS in Chemical Engineering with minor in Materials Science and Engineering, *University of Tennessee*

- GPA: 3.91
- Undergraduate Teaching Assistant, Fall 2018, Spring 2019
- Engineering Honors Program – 2015-2018
- Secretary, UTK AIChE- 2017/2018

PUBLICATIONS

Chambon, P., Deter, D., Smith, D., and Bauman, G., "Electric Drive Transient Behavior Modeling: Comparison of Steady State Map Based Offline Simulation and Hardware-in-the-Loop Testing," SAE Int. J. Passeng. Cars – Electron. Electr. Syst. 10(1):2017