

# Casper Versteeg

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Durham, NC 27705

Motivated and driven international student with strong academic record. Excellent problem-solving skills acquired through major-related and extracurricular work. Wanting to bring hard-working and responsible attitude to workplace.

## EDUCATION

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- **Duke University** Durham, NC  
*M.Sc., Ph.D. in Mechanical Engineering* *Aug. 2018 – May 2023 (expected)*  
*Emphasis in computational mechanics and finite elements*
- **University of Georgia** Athens, GA  
*Bachelor of Science in Mechanical Engineering; GPA: 3.92* *Aug. 2014 – May 2018*

## SKILLS

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- **Programming:** C++, MATLAB/Simulink, Python, Java, HTML, JavaScript, PHP, Object Pascal
- **Software:** Microsoft Office Suite, ANSYS/FLUENT, AutoCAD, Inventor, ThermalDesktop, SolidWorks, COMSOL, Code V
- **Languages:** *Fluent:* English, Dutch (native); *Intermediate:* German, French

## EXPERIENCE

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- **Small Satellite Research Lab** Athens, GA  
*Mechanical Team Lead* *January 2017 - Present*
  - **Management:** Managed the mechanical team; hired and trained new members, directed team tasks, and kept team on top of deadlines; cooperated with other teams on projects
  - **Engineering Design:** Developed science payloads for two CubeSat missions and directed mechanical team in design process; experimentally tested optical payload design to characterize electronics
  - **Modeling:** Created thermal and structural models for satellites in orbit and during launch using finite element methods; published modeling results to conferences and papers
  - **Analysis:** Provided engineering heat transfer solutions to heat transfer problems, developed designs for structural challenges, directly applied engineering knowledge to ensure mission success
- **University of Georgia College of Engineering** Athens, GA  
*Teacher's Assistant* *January 2017 - May 2018*
  - **Student Interaction:** Answering student questions and supervising students running laboratory experiments, explaining concepts and resolving uncertainties
  - **Development:** In charge of developing new laboratory experiment procedures so students can perform learning experiments
  - **Responsibilities:** Had to keep up with class material to help students effectively, and grade students' homework after every class
- **University of Georgia Food Services–Bolton Dining Hall** Athens, GA  
*Student Supervisor* *Aug. 2015 - Aug. 2017*
  - **Management:** Tasked with management, supervising and training of the student worker boy at the dining commons, and overseeing day-to-day operations
  - **Food Service:** Responsible for preparing and serving food and maintaining food station cleanliness
  - **Teamwork:** Work in cooperation with full-time employees and the supervisor team to ensure efficiency and food-safety

## PUBLICATIONS

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- [1] Casper Versteeg and David L. Cotten. Thermal management and design of high heat small satellite payloads. *Proceedings of the AIAA/USU Conference on Small Satellites*, (SSC18-PII-04), August 2018.
- [2] Casper Versteeg and David L. Cotten. Preliminary thermal analysis of small satellites. *AIAA Student Conference Proceedings*, March 2018.
- [3] Casper Versteeg, David L. Cotten, and Deepak Mishra. Thermal and structural simulations on small satellite systems. Atlanta, GA, October 2017. Symposium on Space Innovations.