




## Matthew Clarke

Ph.D. Student in Aeronautics and Astronautics, admitted Spring 2017

 Resume available Online

### Bio

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#### BIO

Matthew Clarke is a Ph.D. candidate in the Department of Aeronautics and Astronautics. He is a Tau Beta Pi Fellow and holds an M.S. in AA from Stanford and B.S. in Mechanical Engineering from Howard University. His research focuses on aircraft design with an emphasis on the analysis and optimization of vehicles for regional and urban air mobility. His work also encompasses system modeling of novel battery technologies for electric propulsion applications. Outside of his doctoral work, Matthew dedicates his time to addressing issues surrounding underrepresented minority matriculation and retention in STEM fields, serving as both graduate student recruiter for the School of Engineering and a mentor through the Office of the Vice Provost for Graduate Education. Matthew is a former president of the Black Engineering Graduate Student Association, and a member of the American Society of Mechanical Engineers (ASME); the American Institute of Aeronautics and Astronautics (AIAA), and the National Society of Black Engineers (NSBE).

#### HONORS AND AWARDS

- Stanford University Graduate Engineering Fellowship, Stanford University (April, 2016)
- Tau Beta Pi Engineering Honor Society Fellowship, Tau Beta Pi, The Engineering Honor Society (April, 2016)
- Tau Beta Pi Engineering Honor Society Scholarship, Tau Beta Pi, The Engineering Honor Society (June 2015)
- American Society of Mechanical Engineers Foundation Scholarship, American Society of Mechanical Engineers (May 2015)

#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, American Institute of Aeronautics and Astronautics (2016 - present)
- Member, American Society of Mechanical Engineers (2012 - present)
- Member, Tau Beta Pi, The Engineering Honor Society (2014 - present)
- Member, National Society of Black Engineers (2012 - present)
- Member, Chapter President, Engineers Without Borders (2012 - 2016)

#### SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Humanitarian Volunteer in Kenya with Engineers Without Borders (2013)
- Humanitarian Volunteer in El Salvador with Engineers Without Borders (2015)
- Humanitarian Volunteer in Haiti (2016)