Michael Karsten

95 8th Street NW Apt 620 Atlanta GA 30309 ▪ (404) 456-6934 ▪ michael.t.karsten@gmail.com

EDUCATION

2017-2019	***Master of Science*** **in Mechanical Engineering**
	Georgia Institute of Technology, Atlanta, Georgia
2013-2016	***Bachelor of Science*** **in Mechanical Engineering**
	University of Georgia, Athens, Georgia

EXPERIENCE

July 2018- Present
GE Power
Atlanta, GA

Analytics Engineer **– Edison Engineering Development Program**
▪ Leverage big data to provide key insights and intelegence back to the business
▪ Create analytics to monitor power plant operation and alert customers of potential issues before they happen, driving greater performance.
▪ Perform data studies on the worlds largest fleet of Heavy Duty Gas Turbines to determine the most effective means of monitoring for failure, or validating corrective action was sucessful.

Jan 2018- Present
GE Power
Atlanta, GA

Gas Plant Performance Solutions Engineer **– Edison Engineering Development Program**
▪ Directly supported customer requests to model gas turbine performance changes.
▪ Analyzed the performance of gas turbine operation to alert customers of opportunities to increase power or efficiency, often in direct support or request of the customer.
▪ Developed an analytic to help determine causes of decreased performance to alert customers before they notice, and incorporated machine learning to refine this analytic over time.
▪ Developed gas turbine performance degradation curves for future designs and validate the curves against operational data once new products are launched.

July 2017-Dec 2017
GE Power
Atlanta, GA

Gas Turbine Product Service Engineer **– Edison Engineering Development Program**
▪ Supported the worlds best running fleet through risk analysis.
▪ Owned Root Cause Analyses by managing a cross-functional team to determine the root cause of field events, the risk to the customer and the business, and to identify and implement corrective action.
▪ Directly support Engineering Requests from the field which has a direct impact on customers operations and profit.
▪ Lead team integration efforts between Legacy GE and Legacy Alstom employees.
▪ Exposed to a wide variety of technology throughout the gas turbine fleet, including legacy GE and legacy Alstom gas turbines, with a focus on the Hot Gas Path.

Jan 2017- June 2017
GE Power
Greenville, SC

Product Line Manager - **Edison Engineering Development Program**
▪ Developed a tool to estimate the performance impact of an upgrade program on a unit.
▪ Supported the new technology introduction of Binder Jet, a new additive manufacturing process with fewer limitations than competing additive technologies.
▪ Analyzed fleet operating and market forces to develop fleet-wide solutions that maximize customer benefit and minimize cost through select upgrade programs.
▪ Supported key technical components of a deal that started as a request to exit contracts with GE, but resulted in stronger customer relations and additional upgrade/service contracts

May 2016 – Dec 2016
GE Power
Atlanta, GA

Cross Fleet Solutions Application Engineer **– Intern**
▪ Developed expert level knowledge on none-GE machines to support GE's cross fleet business.
▪ Supported a global engineering team through training and meetings regarding my expertise.
▪ Updated and advanced GE tools and equipment to be applicable to any machine from any manufacturer.

MEMBERSHIPS/SPECIAL COURSES

2018 - Present	Engineer in Training (EIT) – Georgia Board of Engineers and Land Surveyors
2014 - Present	American Society of Mechanical Engineers
2015 - Present	Society of Automotive Engineers
2012 - Present	Civil Air Patrol
2017 - 2019	Advanced Courses in Engineering (ACE) – GE Power
2017	Powerplant Fundamentals – GE Power
2016	Markets and Models – GE Power

SKILLS/LANGUAGES

- Python, MATLAB, Tableau, VBA, SQL, ANSYS, CAD, JMP/JSL
-English (Native), Turkish (Basic), German (Basic)

ACTIVITIES

Solo-Pilot (Cessna-172), Hiking, Running, Travel, Puzzles