

Andres M Menendez

andmenendez@gmail.com
301 592 7431



School and Degrees

Georgia Institute of Technology | spring 2018

Bachelor of Science in Mechanical Engineering Candidate | GPA: 3.13
Minor in Energy

Professional Experience

General Electric Internships | summers 2015, 2016

Modeled and analyzed the structure of new gas turbine leg design via FEA
Oversaw turbine teardown to record any significant indicators of operating anomalies
Lead 3M turbine fairing adhesives test and assisted in Wind Turbine pitch-bearing stress testing

Cupertino Electric Internship | summer 2017

Automated processes to minimize run-time and human error via excel VBA macros
Optimized P&ID take-off process via image reading Python AI
Organized Labor, Materials and Equipment costs to invoice customers (PG&E)

PIC Group CAD Developer | summer 2018 - spring 2019

Created and completed full system P&IDs via AUTOCAD from field drawings
Verified and reviewed power plant system maps for quality assurance

Leadership Experience

Startup System Designer | spring 2018

Designed entire 200W electrical system to run pumps, lights and indicators
Tested, monitored and optimized power performance of active sub-systems
Created and programed control systems for lighting and circulation pumps

Research at Georgia Tech (STEEL) | spring 2016 - spring 2018

Designed, programmed and tested theoretical models and simulations via MATLAB
Modeled a cross-variable parametric analysis to optimize system variables
Acknowledged in a published academic paper under the Journal of Power Sources¹

Solar Decathlon/Resurgens at Georgia Tech | summer 2014 - spring 2018

Lead and mentored up to 30 students at a time on residential mechanical systems
Designed system for residential mechanical systems in net-zero home
Interfaced with architects, academic faculty, government personnel and company staff

Web Development Portfolio

Portfolio | <https://www.andmenendez.com>

Client Work | <https://www.ciracanelas.com>

ThisIsAtlanta | www.thisisatl.com/archive (Ruby on Rails Application)

Solace | <http://andmenendez.pythonanywhere.com/> (Django Application)

Skills and Extra-curriculars

technical | Django, Rails, Python, Ruby, Javascript, JQuery, HTML, CSS, VBA, Git, SQL, MATLAB, AWS S3

software | CAD (Solidworks, UG-NX, Autodesk), FEA (ANSYS), Adobe Photoshop, Ableton Live

other | climbing, alpinism, sailing, writing, philosophy, music production, bilingual (Spanish), barista

References

Dan Behal	GE Technical Leader	dan.behal@ge.com	864 254 4292
Eric Bonini	GE Compressor NPI Manager	eric.bonini@ge.com	864 254 3797
Shannon Yee	Founder of ARPA-E & GT Professor	shannon.yee@me.gatech.edu	404 385 2176

¹ Alexander Limia, et al, "A dual-stage sodium thermal electrochemical converter (Na-TEC)", Journal of Power Sources 371 (2017) 217-224