

Paul J. Rodi, P.E.

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EXPERIENCE

Southern Company – System, Program, Design, and Test Engineer (Summer 2012 - Present)

- Multifunctional Engineer supporting the upcoming operation of Vogtle Nuclear Units 3 & 4 based on AP1000 Design.
- Lead on Testing Effort on site for all PLCs/Controllers and In-core Instrumentation & Rod Control Preoperational Tests
- Responsible for various component testing, procedure writing, and testing of Safety Related Common-Q PMS System.
- Supported Cold Hydro, Hot Functional, Fuel Load, and Start-up Testing through Digital Interface and Transmitter setups
- Responsible for Distributed Control System (Ovation PLS), Heater Drain, Main Generation, and Time Response Testing.
- Led Oversight Team of standards, systems, and processes during China Startup Testing at Sanmen Nuclear Power Plant.
- Interfaced with Westinghouse, operating fleet, and construction groups to ensure configuration management.
- Responsible for Design Changes and Calculations to support the plant needs as well as review of Westinghouse Designs.
- Worked as construction Lead Engineer of Offsite Modules Group for inspection of Quality and Supplier Compliance.
- Created the process, led the effort, and accomplished the first system (Simulator) turnover from Westinghouse to Owner.
- Developed and coordinated the Calculations and Margin Management Programs for Vogtle 3&4 (first approved program).
- Received training in AP1000 Design, Ovation, ASME NQA-1, Piping, Welding, EPRI Fundamentals, and Startup Testing.

Dominion Energy – Engineering Intern (Summers 2007 - 2011, Winter 2009 - 2010)

- Lead Comment Consolidator (Early Site Permit group)
 - Worked with licensing and engineering teams for North Anna Nuclear Power Station site 3 permits.
- Trainer (Nuclear Leadership Development group)
 - Advised managers/supervisors on effective leadership skills and how to execute those abilities.
- Model Designer (Nuclear Engineering - Mechanical Design group)
 - Developed flow models using computational fluid dynamics software and updated calculations for Nuclear Fleet.

Texas A&M University – Graduate Researcher (Fall 2010 – Spring 2012)

- Funded by South Texas Project (STP) to develop a more accurate Probabilistic Risk Assessment (PRA) code for their Nuclear Power Plant as well as acting as a consultant for a team of undergraduate engineers working on a project for STP.
- Master's Thesis - "Algorithms for incorporation of dynamic recovery in estimating frequency of Critical Station Blackout".

Virginia Commonwealth University - Engineer (Fall 2009 - Spring 2010)

- Senior Design Project – Mechanical Engineer
 - Funded by Dominion Energy to build a research Nuclear Power Plant Simulator of North Anna Unit 1.
 - Acted as team leader and was mainly responsible for the primary systems as well as annunciators.
- da Vinci Center – Consulting Engineer
 - Collaboration with Engineering, Arts, and Business to develop a company's product and go to market strategy.

EDUCATION

Bachelor of Science in Mechanical Engineering with Honors
Minors: General Business, Physics, Mathematics

Virginia Commonwealth University
May 2010 - Summa Cum Laude

Master of Science in Nuclear Engineering

Texas A&M University – College Station
May 2012

HONORS, AWARDS, MEMBERSHIPS, & ACTIVITIES

- Registered Professional Engineer (PE) in the State of Georgia (2016-Present)
- Eagle Scout: Boy Scouts of America (2006)
- Six Sigma Advanced Blue Belt Certified (2008, 2009)
- Member of North American Young Generation Nuclear (NAYGN) (2010-Present, Chair, Best Overall/Future Award 2018)
- Member of American Nuclear Society (ANS) (2008-Present)
- FIRST Robotics Team mentor to middle and high school students (2006-Present)
- Member of Southern Nuclear Diversity, Equity & Inclusion (DE&I) Council (2017-Present, Level III Certificate 2022)
- Member of Young Professionals of Augusta (YPA) (2012-Present, Member of the Year 2020)

SKILLS

Mechanical/Electrical/Digital Troubleshooting, ASME NQA-1 knowledge, ASME Piping, AutoCAD/ANSYS/SOLIDWORKS, WinNUPRA, MCNP, SCALE, Computational Fluid Dynamics, Common-Q PMS, Computer Networking and Programming (Basic, OVATION, LABVIEW, JAVA, C, C++), Metal Working, Robotics/Mechanics, Organizing Events, Leadership, and Mentoring.