

# MICHAEL HAYES

SR. MECHANICAL ENGINEER

City, State  9  
000-000-0000   
email@email.com

## SUMMARY

Over 15 years experience in engineering support of operations and maintenance of nuclear power plants, including both NSSS and BOP systems including turbine, generator, and control systems as well as Emergency Diesel Generators. Experiment in all design stages of a product, from research, development, and manufacture to installation and final commissioning. Possessing a good team spirit, deadline and budget orientated and having the ability to produce according to the technical specifications from the requirements. Good problem solving and troubleshooting skills.

## WORK EXPERIENCE

NASA

2010-05 - PRESENT

### Sr. Mechanical Engineer

- Developing a detailed understanding of the assigned system(s) technical and licensing requirements, as well as maintenance and operation practices to ensure optimal system performance.
- Maintaining an awareness of technical issues, design changes, performance problems, operating experience issues, work orders, long-term improvements plans, etc. associated with assigned systems. Ensuring they are prioritized and planned in a timely manner.
- Providing technical assistance and input to the other departments regarding system problems, design changes, procedures, and testing.
- Monitoring and evaluating system performance and initiating corrective actions as necessary.
- Maintaining overall responsibility for monitoring and trending programs as they apply to assigned systems. These programs may include but are not limited to. IST, Maintenance Rule, Appendix J, MOV, Heat Exchanger thermal performance testing.

NORTH AMERICAN SHIPBUILDING  
2007-04 - 2010-04

### Mechanical Test Engineer

- Directed shipyard craft and inspected personnel in the construction and overhaul of plant systems Directed shipyard technicians and plated operators in the performance testing of all systems.
- Prepared documentation for certification and acceptance.
- Analyzed plant system malfunctions and designed problems in order to determine and initiate corrective actions.

BOEING  
2004-02 - 2007-03

### Manufacturing Engineer

- Established and supervised manufacturing line for GST series Scribe/Break equipment.
- Designed and documented machine standards and benchmark for the scribe and cleave processes.
- Developed test procedures to ensure full machine capability.
- Instructed and trained shop personnel for manufacturing and provided Field Service support.

GE AVIATION  
2002-02 - 2004-01

### Mechanical Designer Internship

- Supported the engineering teams of equipment and trains structure departments.
- Developed and designed simple parts and mechanisms supervised by a senior engineer.
- Monitored structural tests and took deflections data for later analysis by the engineers.
- Internship work report.

EDUCATION  
CARNEGIE MELLON UNIVERSITY  
1999 - 2002

### Bachelor of Science

## SKILLS

FEA



- Finite Elements Analysis.

CAD



- Autocad™
- SolidWorks™

DFMA



- Failure Mode and Effects Analyses.

RENDERING



- Create photorealism images.

GD&T



- Geometric Dimensioning and Tolerance
- Stack up analysis.

MACHINE SECURITY



- CE Marking/Machine directive 2006/42/EC

OTHER SOFTWARES



QUALITY

