James R. Koenig
Sewell, NJ 08080
Cell: (856) 625-8592 | Email: raleighmt@yahoo.com
LinkedIn: www.linkedin.com/in/jkoenig19/
GitHub: github.com/jkoenig19 | Portfolio: jkoenig19.github.io/Bootstrap-Portfolio/

PROFESSIONAL SUMMARY:

Full stack web developer and experienced systems engineer with proven project management skills. Some projects required consideration of technical, cost, and value impacts. Experienced with the different phases of a product development cycle. Interfaced with different functional teams, customers, and companies. Completed a course in technical project management.

SOFTWARE SKILLS:

MATLAB, DOORS, MS Word, MS Excel, MS PowerPoint, MS Project, Visual Studio Code, HTML, CSS, JavaScript, jQuery, Bootstrap, React, Node.js, Express, Handlebars, Firebase, MySQL, MongoDB, Plotly.js, Moment.js

DEVELOPER PROJECTS:

Bakery Link
- Group project in which I did most of the back end and for the front end my contributions included using Moment.js, Plotly.js, MapQuest API, and doing React state management
- HTML, CSS, JavaScript, Bootstrap, React, Node.js, Express, and MongoDB
- github.com/jkoenig19/finalproject | floating-springs-89495.herokuapp.com

Google Books Search
- Created an application that allows a user to search for information on books stored in Google Books
- HTML, CSS, JavaScript, Bootstrap, React, Node.js, Express, and MongoDB
- github.com/jkoenig19/google-books-search | floating-spire-41797.herokuapp.com

Mongo Scraper
- Created a full stack application that allows a user to save articles from a newspaper website and add notes to those articles
- HTML, CSS, JavaScript, jQuery, Bootstrap, Node.js, Express, Handlebars, and MongoDB
- github.com/jkoenig19/News-Articles | fast-lake-41210.herokuapp.com

PROFESSIONAL EXPERIENCE:

Spectrum Software Technology, Egg Harbor Township, NJ
Electrical Engineer   4/16-8/18
- Supported the Federal Aviation Administration (FAA) in test and evaluation of navigation equipment.
- Assisted with execution of test procedures for testing of glide slope and Distance Measuring Equipment (DME) antennas.
- Created a test procedure and test reports.

The Boeing Company, Ridley Park, PA
Mission Systems Engineer   1/11-2/15
- Cooperated with supplier developing a Data Concentrator Unit for select variants of the H-47 aircraft and supported coordination of Boeing personnel for the development.

- Led reviews and responses to supplier documentation submittals.
- Supported DO-178B and DO-254 certification activities.
- Wrote and revised as necessary Statement Of Work (SOW) for suppliers.
- Supported schedule development, assessment, and tracking.
- Performed technical review of supplier proposal.
- Participated in requirement changes to documentation and audited requirement traceability.
- Managed delivery and qualification of supplier software.
- Coordinated projects with more than one supplier at a time.
- Led supplier design reviews.
- Assisted in completing and tracking action items.
- Provided project status to different stakeholders.

Avionics Engineer   7/98-1/11
- Participated in trade studies looking at new technology in the areas of Open Systems/COTS for use in the V-22 to reduce cost and increase performance.
- Participated in other trade studies that have included investigation into UAV, sensor, and weapon technologies for use with the V-22.
- Contributed to proposal work and receipt of new business due to results of some trade studies.
- Contributed to the requirement development for TCAS on the CV-22 variant.
- Supported avionics proposal activities and cost estimates for a V-22 avionics upgrade.
- Provided avionics knowledge to support other aircraft program activities related to the V-22.
- Participated in process development activities.
- Collaborated on the initial avionics design for the commercial SkyHook program while still a part of the V-22 program.
- Assisted with distributing and evaluating Request For Information (RFI) for avionics.
- Participated in Boeing team that brainstormed potential mitigations for an Improvised Explosive Device (IED).
- Performed risk management activities.
- Participated in budgeting activities.

EDUCATION:
University of Pennsylvania, LPS - Philadelphia, PA
Boot Camp Certificate, Penn LPS Coding Boot Camp (Full Stack Web Development)

Drexel University - Philadelphia, PA
Bachelor of Science, Electrical Engineering

PUBLICATIONS:
22nd Digital Avionics System Conference (DASC) 2003. "Bi-directional High Speed Network for Open System Avionics", technical paper author.
21st DASC 2002. "Proactive Open System Architecture Design Concepts for the V-22 Osprey Tiltrotor", technical paper co-author. Paper won best of session and track.
19th DASC 2000. "Open Systems Avionics Network to Replace MIL-STD-1553", technical paper co-author. Paper also appeared in IEEE Aerospace and Electronic Systems Magazine August 2001.