# K&L Internship Presentation

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MPG™
CONNECTING & PROTECTING PEOPLE
a DOVER company

K&L MICROWAVE

## Company Overview

- K&L Microwave in Salisbury, MD was established in 1971 and acquired by Dover Corporation in 1983.
- They design and manufacture a wide range of hardware used to control and filter electronic signals.
    - Relies on custom software applications to aid in sales, marketing, and internal modeling.
- K&L works with prominent names in technology & defense sectors (ie. Kratos Defense, GE Aerospace, Honeywell, etc.)

# PROJECTS

MY ROLE & WORK DONE


**Honorable Mentions:**

- ProtoLPKF
- Intranet

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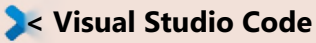
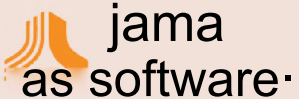
# FRAMEWORKS & TECHNOLOGIES USED







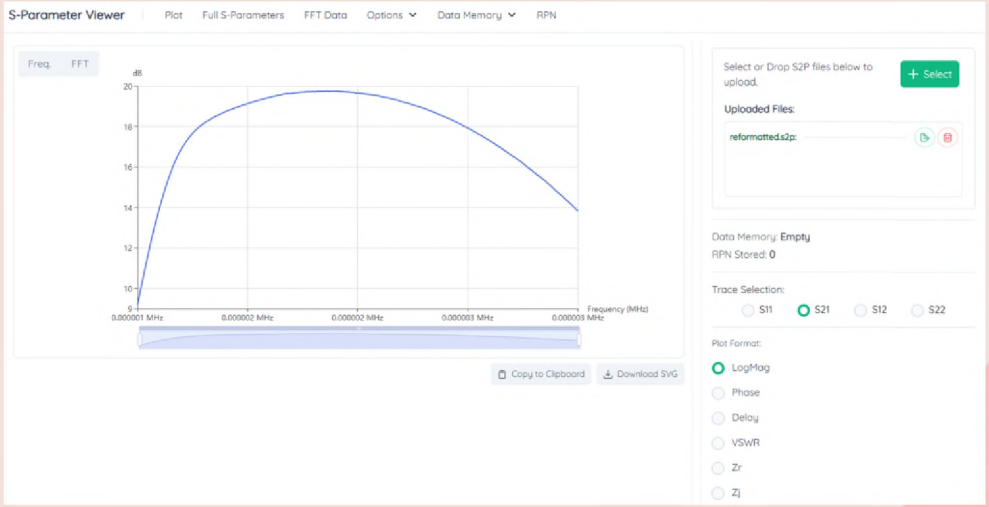



# QUOTABLE

Created internal web-application for the Sales team to generate custom quote datasheets for consumers.

## S-PARAMETER VIEWER

Created web-application that allows users to upload Torchstone files (*.s2p) and analyze the S-parameter (Scattering parameter) data for two-port networks.

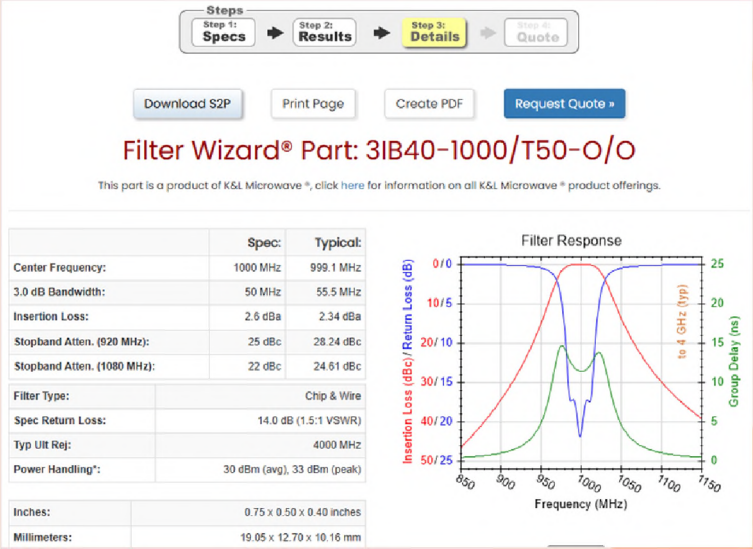


## SALESASSISTANT

- Internal web-application
- Acts as intermediary between FilterWizard clients & Sales/Engineering teams.
- Allows for employees to manage and execute product quote requests.

## FILTERWIZARD

- External web-application
- Allows for external users to view, create, and request product quotes.



# MAIN CHALLENGES

- Began working with unfamiliar tech stacks and RF terminologies, having to rely on my team and online resources (+ PluralSight) to get work done.
- New Workflows: Adapted to documentation, verification, and testing- finding the processes manageable despite their initial complexity.
- The entire knowledge domain of RF technologies, filter specifications, terminology, etc. and applying them in software applications sufficiently.
- Balancing the combination of work, school, and social life.

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## CONNECTION TO COURSEWORK

- Software Engineering (COSC 425/426): Applied the full SDLC and project management to build internal tools from initial wireframes.
- Frameworks: Coursework provided the structural foundation needed to quickly learn and implement new development stacks.
- Database Systems

# CONCLUSION

- Greatly appreciated the opportunity to build applications in entirely new domains/environment.
- Gained end-to-end experience: from wireframing to technical documentation and verification testing.
    - Gained more technical insight through hands-on application development than in the classroom.
- Thrived in a (very) patient, supportive team atmosphere that encouraged my individual growth.

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# THANK YOU!

Questions? (I( or)