William Hong

wwhong@gmail.com | ww-hong.github.io | 410 961 6907

SUMMARY

My mission as a product manager is to ensure the success of complex products by structuring development processes that continually align engineering with end-user needs

PRODUCTS

PathScope

PathScope is a software tool for pathology researchers to interact with digital slides. I am currently designing and developing this application to optimize pathology workflows to better diagnose diseases

- Collaborating with University of Maryland Medical Center pathology researchers to elicit user stories and address the lack of fundamental diagnostic tools
- Prototyping and testing proof-of-concept Python GUI to validate product features against established operational objectives

PieTime

PieTime is a web application for optimizing topping selection for group pizza orders

- Conducting interviews on topping selection process and pizza ordering experience
- Revising wireframes and user flows to streamline order submission process and user onboarding

EDUCATION

- **Systems Engineering**, Master of Science in Engineering — *Johns Hopkins University*
- **Electrical Engineering**, Bachelor of Science with Honors — *University of Maryland*

WORK EXPERIENCE

Johns Hopkins University Applied Physics Laboratory (JHU/APL) — Laurel, MD

JHU/APL is the nation's largest not-for-profit University-affiliated Research Center. I was brought on board to conduct systems engineering for mass transit and anti-submarine national security needs.

Systems Engineer (Technical Senior Professional Staff I) — *2009 - present*

- Proposed and implemented a quantitative decision-making process based on stakeholder interviews to determine technology suitability for Congressional report impacting 350 exit lanes at 146 airports
- Extracted traceable requirements from ambiguous objectives, designed a verification and validation framework, executed mass transit security test events, and verified system screening performance
- Led operator training and system deployment for security screening of 28,000 Super Bowl attendees
- Implemented and integrated software features deployable to 109 active Naval ships to improve track classification performance, optimize sonar display consoles, and decrease warfighter workloads

Applied Visual Solutions (AVS) — Baltimore, MD

AVS is a small business specializing in power engineering expert systems to enhance utility asset management and power plant operational performance. I was hired to establish data trending capabilities for OSISoft PI historian data.

Software Engineer — *2006 - 2008*

- Developed user-friendly data visualization tools to calculate critical data trends and optimize power plant operations with annual savings of up to $1.2M
- Decreased software deployment times by more than 40% by automating GUI element creation, placement, and callbacks

SKILLS

MATLAB, Python, UML, Agile, HTML, CSS, VBA, C++, SQL, Lightroom, Photoshop, Wedding Photography

INTERESTS

Web App Development, Scalable Web Architecture, PaaS (Google App Engine), SaaS