

Jin Mok – E.I.T / NDE II

www.Linkedin.com/JinMach • (714) 388-5473 • jmokkang@gmail.com • www.JinMach.com • github.com/jmokkang



EDUCATION

University of California, Irvine: Henry Samueli School of Engineering Graduated 2014

Dean's Honor List GPA: 3.23

Mechanical & Aerospace Engineering B.S

American Aerospace Technical Academy, Los Angeles: **NDT/NDE Level II Qualification Multimethod**

August 2017

University of California Irvine – **Cybersecurity Certified**

August 2019

QUALITY ENGINEER & CYBER SECURITY CERTIFICATIONS & ENGINEERING LICENSE

- NCEES Licensed: **Engineer-In-Training Lic# 156462**
- **Cyber Security Engineer** – SOC Analyst, IT Security Infrastructure, Penetration Testing and Red // Blue Team.
- **ASNT NDT/NDE Engineer** –VI II, PT II, MT II, UT II, RT II, UT II, Phased Array II, Computed Radiography.
- Bilingual in **Korean and English**.

CODING SKILLSETS & TECHNICAL

- **Linux, Bash, PHP, HTML, Matlab, JAVA, Python, SolidWorks, FEA Analysis, Computational Fluid Dynamics** – Simulations, **AutoCAD**, XFLR5, XFOIL, Adobe, 3D Printing, Illustrator, Adobe Photoshop, **Adobe InDesign**, GIMP, QuickBooks, **Kali Linux, Raspberry Pi**, and 3D rendering with UAV (Drone).
- Professional industry experience with **Title 24, NEC and NFPA 70/79**.
- **Aircraft Pilot** Trainee and **FAA registered UAV (Drone)** inspector

PROFESSIONAL EXPERIENCE

America Building Materials,

June 2017 - Present

Operations Engineer

- Advocated safe work environment in parallel with **OSHA** regulations and **NEC** and **NFPA**.
- Implemented corporate environment approach with the employees in order to adapt and execute chain of accountability in respect to ensure accurate and precise shipping and receiving.
- **Enforced** new regulations in **code of ethics, labor, safety and business** to reduce unreliable inventory errors as well as **mismanaged** shipping and receiving management system. Reducing shipping and receiving **errors from 70% to 3% margin**.
- As an operations manager, essential duties to listened to the employees and worked closely **to assist & to motivate** to make their working environment easier and safer. Worked by side in order to learn the difficult tasks that loaders would have to endure and rectify the faulty system.
- **Reinforced** team effort and teamwork by **inquiring** employees to inform for any ideas on **preventative maintenance** on trucks, trailers, forklifts, office interior and yard control.
- Delivery load **accuracy, quality assurance** and reformed the mission statement of the company with **'Integrity & Safety'** for our clients and our employees resulted in acquiring new contracts from solar, HVAC and building contractors.

Crown Tear-Off & Disposal, Inc, Los Angeles, CA

2016 - Present

Operations Engineer

- **Exponentially** grew team communications by **assisting** my team with **heavy tasks** and learning the full process and earning respect to **identify** and solve **severe** root causes of **quality related processes**.
- **Negotiated** and directed design, planning and **executing optimized** operations on projects involving multiple contractors.
- As a **point of contact** between the employees and the management, production floor and warehouse for quick lead time to ensure customer satisfaction. **Quality check** during shipping and receiving as well as training operators about **guidelines implemented upon teams approval**.
- **SOP** of **inventory** check, shipping & receiving confirmation, PO, invoices, machinery and vehicular **preventative maintenance** for **maximum** hours.
- Concentrated on to improve the work environment and conditions, **mechanics, engineering, SOP**, layout design, **quality assurance** which developed **teamwork** by **enhancing** professional work ethics and relationships.
- **Ensured that the client's product and specific needs of their product surpasses the quality expectations**.

Apple, Inc. - Pegatron Corporation, Elk Grove, CA (Electronics Manufacturing Industry – 1500 Employees: 1,500)

Oct 2015 – June 2016

Lead Facility Engineering Supervisor & Manufacturing Engineer

Started as New Project Initiative (NPI) and was promoted within a month to be the core member of the project coordinating with the engineering teams, the internal management and the client.

- **Liaised** as one point communication between the **management**, the client, and the entire factory including engineering, warehouse, operators, and security to construct the approved layout.
- **Devised** entire facility layout using **AutoCAD** to accommodate a new **confidential** project in a **125,000 sq. ft.** building.
 - o Facility layouts designed with in respect to the process flow requested by the client, however, design flow was decided by my team for the **optimal** turnaround time.
- **International** twin project system cooperation for **logistics** and **compliance** with federal and state electrical and building codes.
- Supervised facility engineering team, which was KPI with responsibility of continuing production on the production floor with regular maintenance & innovative problem-solving skills.
- **Designed and implemented security** protocol. **Physical security, cyber security** and responsible for design of SOC Command Center and devising security plans.

Advanced Engineered Solutions, Los Alamitos, CA (**HVAC & Energy Management Engineering Consultant – 7 Employees**)

Oct. 2014 – April 2015

Mechanical Design Engineer

- Outlined and devised **refrigerant detection system** for central plants for industrial buildings via **PLC** and touchscreen.
- Accommodated precise and ideal analysis for **energy load** audits, **refrigerant** detection system, **HVAC control systems**.
- Constructed the electrical layout for **batch controller system** using variety of electrical components controlled by logic controller.
- **BOM** for finances necessary for the project for different types of batch controllers.

ENGINEERING PROJECTS

Aircraft Design, Irvine, CA

March 2014 - June 2014

Engineer

- **Computed** and **composed** two commercial **aircraft** for separate operational conditions. Applied **Matlab** to establish design parameters that were coded to optimize **direct operating cost (D.O.C)**.
- **3D models** and **2D** three view layouts were created with **SolidWorks** from the data acquired by **aircraft design studies**.

Nov. 2013 - June 2014

UC Irvine UAV Forge, Irvine, CA (***DARPA Competition funded by Northrop Grumman – 35 Employees***)

Aerodynamics Team Lead

- Managed **UAV Forge** team's **airframe team** to design vehicles that **surveys tactical** military covert **observation** platforms.
- **Researched** and **manufactured** diverse types of **airfoils** and **propellers** to apply XFOIL, XFLR5 and **Matlab** to satisfy **DARPA** requirement of **STOVL**, total range of four miles, able to payload drop area and return to base.