

# KEVIN NG

Design Engineer | Process Optimization | Project Manager  
+14252138624 • ng.kwing@gmail.com • www.linkedin.com/in/ngkwing/ • Bellevue, WA

## Experience

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Issaquah Alps Collective Bellevue, WA  
Independent Product Developer 2025 - Present

- Established a dedicated rapid prototyping cell utilizing FDM additive manufacturing to validate mechanical fit, form and function
- Managed the full product lifecycle for outdoor gear accessories from AI enhanced rendering (Vizcom), cloud native CAD (Onshape) to 3D printing

Epson Portland Inc Hillsboro, OR  
Manufacturing Engineer 2023 - 2024

- Identified a lag in quality control and designed, validated, and prototyped 3D-printed fixtures to streamline the process, successfully reducing optical inline inspection time by 75%
- Analyzed assembly line delays and engineered 3D-printed guard rail prototypes to improve product flow, resulting in a 50% reduction in bottlenecks
- Conducted a comprehensive 5S audit to identify inefficiencies and implemented standardized material handling procedures, which decreased material scrap by 8%

Boyd Corp Beaverton, OR  
Program Manager 2021 - 2022

- Lead resin Pantone color matching processes to meet design and manufacturing requirements
- Via MS Project, managed the full lifecycle "from brief to box" for 50+ multi-million dollar injection molded tooling programs for high-profile clients like Tesla, Verathon, and Polaris, ensuring all project milestones and financial targets were met
- Leveraged SolidWorks for Design for Manufacturing (DFM) and coordinated with tooling/material vendors to streamline production; achieved a 90% success rate in meeting first-production deadlines
- Teamed with Quality and Production to create procedures maintaining high-cosmetic component integrity with full process compliance

Vision Plastics Wilsonville, OR  
Project Engineer 2018 - 2021

- Provided plastic resin recommendation for customer ensuring it meets their specific applications
- Led 20+ New Product Introduction (NPI) projects focused on optimizing manufacturing workflows; by identifying process inefficiencies, successfully reduced scrap rates and cycle times by 5-10%, significantly boosting overall production efficiency
- Mitigated high-risk production halts during the COVID-19 supply chain disruption by proactively negotiating with material vendors; secured critical resin back-stock that prevented major slowdowns for all customer production lines

Vaupell Northwest Seattle, WA  
Design Engineer 2014 - 2015

- Worked in collaboration with manufacturing engineers designing fixtures and customized hand tools requested by the production team improving part to part consistency when applying bonding agents between two mating parts
- Reduced unnecessary foot traffic by 30% by implementing lean principles and modularizing 50 workstations, enhancing safety and cleanliness
- Executed complex Finite Element Analysis (FEA) via SolidWorks and Design for Manufacturing (DFM) evaluations for aerospace interior ventilation grills; successfully minimized overall part weight, cycle time, and resin costs through data-driven design iterations

GlobalTech Plastics Auburn, WA  
Project Engineer 2012 - 2014

## Education

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Western Washington University Bellingham, WA  
BS in Plastics Engineering 2012