PICHA NILLAWONG

Senior Digital Modeler / Alias Designer

Open to relocation, remote work, and full-time positions.

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PROFESSIONAL SUMMARY

Senior Digital Modeler / Alias Designer with 15+ years of experience in motorcycle, automotive, and advanced mobility design. Specialized in Autodesk Alias and CATIA Class-A surfacing with deep expertise in transforming 2D sketches and scan data into production-ready 3D models. Proven track record in leading complex surfacing projects, mentoring junior designers, and collaborating with styling, engineering, and cross-functional teams to deliver high-quality, manufacturable designs. Skilled in VRED visualization, supporting design studios and engineering teams to achieve world-class product designs.

PROFESSIONAL EXPERIENCE

Bajaj Auto Thailand — Senior Digital Modeler / 3D Designer
Bangkok, Thailand | 2023 – Present

- Created advanced 3D motorcycle surfaces using Autodesk Alias, transforming 2D sketches into production-ready Class-A surfaces through Alias SubD → Surface workflows.
- Designed Class-B automotive exterior components (main body, bonnet, bumpers, roof panels).
- Prepared 3D models for printing and validation, ensuring precision and production fidelity.
- Collaborated with styling, engineering, and supplier teams to refine data for mass production.
- Produced high-quality renderings and visualizations in Alias and VRED, applying advanced materials, lighting, and camera setups.
- Mentored junior modelers in Alias and CATIA best practices, enhancing team capability and efficiency.

Honda R&D Southeast Asia — Senior Digital Modeler / Class-A Surfacing
 Bangkok, Thailand | 2016 – 2023

- Led transition from traditional clay modeling to digital ("clay-less") workflows, significantly reducing work hours and manpower requirements.

- Managed project schedules, task allocation, and recovery strategies to meet tight deadlines.
- Developed production-ready motorcycle components in CATIA (FSS/GSD/RE2) from mesh and scan data.
- Converted Alias sketches into Class-A surfaces while ensuring manufacturability and styling alignment.
- Partnered closely with engineering teams to optimize designs for functionality, manufacturability, and performance.
- Delivered multiple motorcycle models into production on time.
- Researched and adopted emerging design tools and workflows, driving innovation and continuous improvement.

Honda R&D Southeast Asia — CAS Modeler / Surface Designer
Bangkok, Thailand | 2008 – 2016

- Created initial Alias concept surfaces for motorcycle bodywork and refined them into Class-A surfaces by 3D Honda's program and Catia.
- Supported design reviews with high-quality VRED visualizations for styling presentations.
- Gained expertise in advanced surface diagnostics, quality analysis, and refinement (zebra analysis, curvature combs).

SKILLS

- **3D Surface Modeling:** Autodesk Alias (NURBS/SubD), CATIA V5 (FSS, GSD, RE2, DSE), Class-A/CAS surfacing
- **Motorcycle & Automotive Design:** Painted plastic parts, ergonomic bodywork, fuel tanks, fairings, body panels
- **Visualization & Presentation:** VRED, Blender (basic), Teamcenter/PLM, Scan-to-Surface, advanced rendering techniques
- **Collaboration & Leadership:** Mentorship, cross-functional teamwork, design–engineering integration, workflow optimization

EDUCATION

B.Eng., Industrial Engineering   Silpakorn University, Thailand | Second Class Honors

AWARDS

Team Member of the Year (2022) — Honda R&D SEA; recognized for digitizing workflows and mentoring colleagues to enhance surfacing capabilities.