

Bing Gao

Computational Mechanics Student | CFD & Aerodynamics

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ENGINEERING EXPERIENCE

Vinci Eco Drive, Aerodynamics Engineer

Sept 2025 – present

Project: Formula Student race car — cooling & aerodynamic design

Paris, France

- **Cooling Design & Calculations:** Designed and evaluated motor, inverter and battery cooling systems; selected radiators, fans, pumps and piping using heat-transfer, energy-balance and pressure-loss calculations to size flow and cooling capacity.
- **CAD & Aerodynamics:** Modeled sidepods, cooling ducts, deflectors and the rear wing in 3DEXPERIENCE; assessed airflow paths and component placement to balance heat rejection and aerodynamic drag.
- **OpenFOAM Simulation:** Simulated cooling airflow and external aerodynamics; compared flow rate, pressure drop, temperature and drag across design variants, using the results to refine cooling-duct and aerodynamic geometry.

Felisiak Ingénierie & Développement, 3D Modeling Intern

Apr 2026 – Aug 2026

Project: European Space Agency Space Rider — spacecraft reconstruction

Paris, France

- **Spacecraft Reconstruction:** Reconstructed [Space Rider](#)'s main body and key components from public engineering drawings, technical manuals and reference images; completed the full 3D model in Blender.
- **Python Geometry Assessment:** Automated batch sampling of mesh vertices, contours and cross-sections with Blender API scripts; calculated maximum deviation and root-mean-square error against reference drawings.

SOFTWARE ENGINEERING EXPERIENCE

Inkeverse, Mobile Application Development Manager

July 2016 – Aug 2025

Project: LaoYou — TikTok-like live-streaming social platform

Beijing, China

- **Product & Technical Leadership:** Wrote over 70% of the initial core code for a platform that grew to 2M+ users; led technical design, task planning, code reviews, releases and long-term maintenance.
- **Full-Stack, Multi-Platform & AI-Assisted Development:** Developed [Android](#) and [iOS](#) applications, integrated React Native, built mini-programs with Taro, and developed back-end services with Ruby on Rails; used Cursor, Claude Code, and Figma integrations through the MCP for requirement analysis, interface implementation, refactoring, and testing.
- **Real-Time Systems & Release Engineering:** Developed live-room architecture, audio/video processing, real-time gift rendering, and voiceprint-recognition features; built Ruby-based automation for testing, builds, staged rollouts, and App Store delivery; implemented hotfixes, code obfuscation, SSL pinning, and production-incident troubleshooting.

Google Developer Group, Core Organizer

Nov 2015 – Aug 2025

- **Community Leadership:** Delivered 5+ technical events annually with 500 attendees each; coordinated topics and speakers with engineers from Google and other tech companies.
- **Open-Source Contributions:** Organized sessions on Android, Kotlin, Flutter, TensorFlow and Google Cloud; contributed to open-source development, technical-content localization and developer support.

Creating EV Technology, Android Engineer Intern

Aug 2015 – July 2016

Project: ClassBox — university course management platform

Beijing, China

- **Android & Back-End:** Contributed to 11 ClassBox 7.0 releases: course management, Coursera integration, calendars, widgets, in-app updates, WebView, and APIs for course mapping, account binding and e-commerce.

EDUCATION

ESILV, Diplôme d'ingénieur (Master's level), Modelling & Computational Mechanics

Sept 2025 – June 2027

- **Coursework Focus:** CFD, FEM, Fluid Flow Analysis, Aeroelasticity, Structural Optimization

Paris, France

Changchun University of Science and Technology (CUST), B.Eng., Computer Science

Sept 2012 – July 2016

- **Coursework Focus:** Numerical Analysis, Mathematical Modeling, Data Structures & Algorithms
- **Honors:** National Scholarship (top 0.2%); 1st Class Scholarship ×5; 1st Prizes in Mathematical Modeling and ACM contests.

Changchun, China

SKILLS & LANGUAGES

Mechanical Engineering: OpenFOAM, Ansys Fluent, STAR-CCM+, Abaqus, CATIA/3DEXPERIENCE, SolidWorks, Blender

Programming: Python, C/C++, MATLAB/Simulink, Java/Kotlin, Ruby, JavaScript/TypeScript, SQL, Git, Linux

Languages: Chinese (native), English (C1), French (B2)

Interests: Black-run snowboarding, amateur racing, animal rescue volunteering, short-film filmmaking