

# Hailin Wang

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## Experiences

### Applications Engineer | Elevate Semiconductor

*San Diego, California | June 2023 - Present*

- **Closed \$30M in purchase orders** by synthesizing inputs from design, operations, and sales into a bespoke SoC test solution that delivered lasting PPA gains for ATE customers.
- Bench-recreated customer failures, then isolated root causes with PEM, IR, and FIB analysis—providing actionable fixes that protected tape-out schedules and supply-chain commitments.
- **Built an integrated Zendesk ↔ JIRA workflow** that automated SLA tracking and prioritized bug-fix backlogs, improving customer-response metrics and executive visibility.
- Managed simultaneous support cases spanning design, quality, and logistics; leveraged Cadence simulation, register scripting, and data-visualization to align stakeholders on root cause.
- Conducted on-site technical visits across North America & Asia in English and Mandarin; report directly to VPs of Sales and Engineering on strategy and risk.

### Data Warehouse Consultant | Fidelity Investments

*Toronto, Canada | October 2022 – April 2023*

- Productionized ML models on AWS S3/EC2 to power daily analytics on financial-advisor performance.
- Researched 20+ academic papers to architect a churn-prediction and marketing-uplift model for client-retention strategy.
- Performed EDA on Snowflake using Snowpark + SQL to validate hypotheses and shape data quality pipelines.

### IC Hardware Engineer | AnalogX - Rambus

*Toronto, Canada | May 2021 – October 2022*

- Designed SERDES integrated circuit using Verilog – completing 100% of RTL hardware meeting tape out deadline
- Managed integration of semiconductor IP across 15+ engineer digital design and verification teams
- Led digital integration and verification dev in Linux reaching **99%** code coverage within cost and schedule constraints
- Introduced hardware optimization feature reducing bit error rate by **9 orders** of magnitude using FEC encoding

### Software Developer | Rocscience Inc

*Toronto, Canada | May – August 2020*

- Drove leading project development for (EX3, RS3, Slide3) tripling 3-feature annotation toolset
- Implemented UX/UI features using C# and .NET for product updates to **450+** Universities in **120+** countries
- Refactored library of 200+ files using Visual Studio and git leading to reduced model processing runtime by **30%**

## Technical Projects

- **Stereo-Vision Pipeline (U of T, 2023):** Achieved <0.12 bad-disparity rate on KITTI; implemented PnP pose estimation and panorama stitching in OpenCV.
- **Autonomous EV-Charger Robot (Capstone, 2022):** Designed chassis (laser-cut & 3-D-printed) and C++ localization algorithm, achieving ±0.1 mm accuracy across eight DOF.
- **Toronto Commercial-Development Analysis (2021):** Built Python scraping & clustering pipeline; reduced target-area competition by 98%.

## Education

### University of Toronto

Bachelor of Applied Science in Engineering Science | Graduation: April 2023

- Major: Robotics Engineering. Minor Business and Finance
- Cumulative GPA: 3.68 | Dean's Honour Roll | President's Scholar of Excellence
- Clubs: You're Next Career Network, Engineering Sports Association, IEEE Toronto Branch
- Relevant Coursework: Computer Algorithms and Data Structures, Operating Systems, Digital and Computer Systems

## Skills

Verilog/Cadence Virtuoso/Xcelium/Synopsys VCS • C++, C#, Python, MATLAB • AWS (S3, EC2, Batch) • Snowflake SQL/Snowpark • JIRA, Confluence, Zendesk automations • JMP • HTML/CSS/JavaScript • 3-D printing & CNC prototyping  
Languages: English, native | Chinese, fluent | French, proficient