

YIHUNG (ADAM) CHEN

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EDUCATION

University of Illinois at Urbana-Champaign

B.S. in System Engineering | Minor in Business | GPA: 3.82

IL, U.S.

Sep 2024 – Expected May 2028

PROFESSIONAL EXPERIENCE

Hennecke GmbH

Rotational Intern

Sankt Augustin, Germany

July 2025– August 2025

- Rotated across engineering, production, R&D, sales, and ESG, developing a comprehensive understanding of PU processing technologies and business operations.
- Assisted Quality Control and Mixhead teams with precision testing, machining, CNC operations, and circuit assembly.
- Supported projects in predictive maintenance (IoT), modular line expansion, and HPS/HBS workshops, linking technical insights with strategic practices.

Computer Network Information Center, Chinese Academy of Sciences (CAS)

Research Intern

Beijing, China

June 2025– July 2025

- Built a relational SQL database linking professors, papers, and institutions; used Python to process survey data for government trend analysis.
- Automated the Annual Report for 107 institutes with Python + HTML/CSS, streamlining HR, usage, and electricity data extraction.
- Developed a Python PDF comparison tool to audit contracts, highlighting changes across versions.

Gazzola Lab, University of Illinois at Urbana-Champaign

Research Assistant | Mentored by Seung Hyun Kim

IL, U.S.

September 2024– May 2025

- Designed and fabricated soft robotic molds for air-pressure-driven actuation.
- Collaborated on optimizing mold designs, improving functionality and control in robotic fingers.
- Explored novel actuator designs for flexibility and dexterity in soft robotics.

AI Data for Autism Spectrum Disorder Research, University of Illinois at Urbana-Champaign

Paid Data Analyst

IL, U.S.

Oct 2024– May 2025

- Analyzed 10,000+ video frames of children's gaze patterns to identify behavioral indicators of ASD.
- Processed large datasets using CVAT, supporting AI model training for ASD severity classification.
- Applied modeling/topography techniques to extract behavioral insights for early detection research.

Independent Research Project: Flexible Pressure Sensor Prototyping

Highschool Senior Project

Singapore

Aug 2023– Dec 2023

- Fabricated flexible pressure sensors using low-cost materials (copper plates, foam tape, rubber cloth).
- Synthesized piezoelectric crystals achieving ~200% higher conductivity than raw material.
- Developed real-time data acquisition and analysis in Python from Arduino inputs.
- Built a C++/Unity 3D visualization to display live sensor data.

TECHNICAL SKILLS

Programming & Data: Python, Java, C++, C, SQL, CVAT, HTML/CSS

Engineering & Design: Fusion 360, SolidWorks, Unity, Arduino, 3D Printing, Soldering, Circuit Assembly

CAD Portfolio:

<https://docs.google.com/document/d/18zrtctRBBm1EfHhEDtzK7brNZKHZrL7RXXMgAq1JJ7Io/edit?usp=sharing>