

EDWIN PAN

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EDUCATION

Bachelor of Science

University of Illinois at Urbana-Champaign

📅 Aug 2016 – May 2020 📍 Champaign, Illinois, USA

- Major: Electrical Engineering (Highest Honors, GPA: 3.83)
- Minor: Computer Science
- Activities & Societies:
Eta Kappa Nu (HKN) ECE Honors Society, 1st Cohort of Alchemy Deep-Tech Startup Foundry, Grainger College of Engineering James Scholar, IBM-ILLINOIS Center for Cognitive Computing Systems Research (C3SR)
- Relevant Coursework:
Artificial Intelligence, Machine Learning, Data Structures, Digital Signal Processing, Image and Video Processing, Control Systems, Computer Vision, Machine Learning in Signal Processing

Master of Science

Stanford University

📅 Sept 2020 – June 2022 📍 Stanford, California, USA

- Major: Electrical Engineering

EXPERIENCE

Co-Founder, CTO

PreSense

📅 January 2019 – May 2020 📍 Champaign, Illinois

- PreSense is a company based on a pitch I made to the Alchemy team in January 2019.
- Built relationships with larger corporate entities to establish valuable relationships. PreSense sustains profitability by leveraging expertise to build radar perception software for clients.
- Presented the *OpenRadar* open-source millimeter wave FMCW radar API written by PreSense at the MIT-IBM AI Horizons Colloquium @ MIT Samberg Conference Center.
- *OpenRadar* has organically grown to become a back-bone toolkit for a global research community. We have representation from US, Germany, Italy, New Zealand, China, and more.
- Negotiated an exit acquisition offer for May 2020.
- Responsible for angle-of-arrival algorithms
- Chief architect of EKF unit testing suite
- Technologies: Python, Advanced Beamforming Algorithms, Extended Kalman Filter (EKF) Tracking

Engineering Intern

Uhnder Inc.

📅 May – August 2018 📍 Austin, Texas

📅 May – August 2017

- Automotive mm-wave radar system performance validation
- Python targeting system API for mm-accuracy calibration
- Waveguide characterization & RF experimental setup design

PROJECTS

Micro-Doppler Target Motion Classification

- Research focusing on performing automotive target classification using only radar sensors.
- Uses advanced tracking algorithms to allow for no a priori knowledge of a target in the FOV.
- Classification techniques currently include Gaussian Mixture Models, and Convolutional Neural Networks.
- Solution is cheap, accurate, scalable, robust, and works in all weather conditions.

SKILLS

Languages:

Proficient: C, C++, Python, Matlab

Experienced Technologies:

TI 1642/1843 FMCW Radar, Uhnder PMCW Radar, Cadence SIP/Allegro/OrCad, SystemVerilog, Rohde and Schwarz

HONORS & AWARDS

College of Engineering Deans List

📅 2016-2020 📍 Champaign, Illinois

- Award given to students whose academic performance places them in the top 20% of the College of Engineering.
- Received for 6/8 semesters

ACTIVITIES

Home Builder Volunteer

Habitat for Humanity of Champaign County

📅 June 2019-May 2020 📍 Champaign, Illinois

- Home-ownership gives families stability and economic empowerment. I used skills learned while helping my Dad build my families house to "pay it forward" for other families.

Mathematics Academic Tutor

Saratoga High School

📅 August 2015 📍 Saratoga, California

- Instead of continuing on to Vector Calculus my senior year, I volunteered to tutor underclassmen who needed help with mathematics. I staffed all tutoring offered during class hours.
- 1-on-1 instruction taught me the value of being able to clearly articulate complex concepts.