

 NOW RECRUITING

BUILD THE FUTURE WITH AI

NXP SEMICONDUCTORS × CTRL

Feb 23 Start • NXP Offices & SDSU • 10 weeks

PROJECT 01

Edge AI Development

Build embedded AI applications that run at the edge. Develop real-time inference systems using NXP's i.MX 8M Plus FRDM development boards and the eIQ machine learning SDK.

Preferred Skills: C/C++ programming, basic electronics, Linux command line, interest in hardware

You'll Learn: Embedded systems development, model optimization & quantization, real-time ML inference, hardware-software integration, edge deployment pipelines

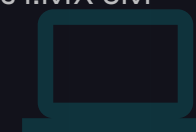
i.MX 8M Plus FRDM

eIQ SDK

TensorFlow Lite

Embedded C/C++

Linux



PROJECT 02

Agentic AI in the Cloud

Design and deploy autonomous AI agents that reason, plan, and execute complex tasks. Build scalable cloud infrastructure for next-generation intelligent systems.

Preferred Skills: Python programming, REST APIs, basic cloud concepts, familiarity with LLMs

You'll Learn: Agentic design patterns, prompt engineering, RAG architectures, cloud deployment (AWS/GCP), multi-agent orchestration, tool use & function calling

LLM APIs

LangChain

AWS/GCP

Python

RAG Systems



PROJECT 03

AI/ML for EDA

Apply machine learning to revolutionize electronic design automation. Tackle chip placement, routing optimization, timing analysis, and design verification challenges.

Preferred Skills: Python, ML fundamentals, linear algebra, interest in chip design or optimization problems

You'll Learn: Graph neural networks for circuits, reinforcement learning for optimization, EDA tool flows, VLSI design fundamentals, ML model deployment for CAD

PyTorch

Graph Neural Networks

Reinforcement Learning

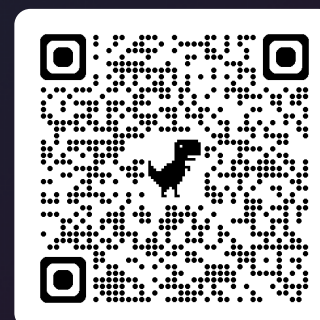
VLSI CAD



Ready to Make an Impact?

APPLY BY FEB 10

SCAN TO REGISTER →



◆ Hands-on Experience • ◆ Industry Mentors • ◆ Portfolio Projects • ◆ All Majors Welcome

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