

Ian A. Cleary

Phoenix, AZ 85007 ♦ US Citizen

career@iancleary.me ♦ <https://iancleary.me>

EXPERIENCE

Viasat Space and Commercial Networks

Tempe, AZ

Digital Subsystem Lead – Viasat-4 Satellite Payloads

August 2021-Present

- Accountable for payload to ground interface, logical to physical mapping, and command/telemetry interfaces.

Viasat Space and Commercial Networks

Tempe, AZ

Systems Engineer – Viasat-3 Satellite Payloads

September 2017-Present

- Improved yield by authored predictive models of system performance from module level test data to reallocating specs and optimize supplier limits (using Python, Docker, and AWS).

Viasat Advanced Microwave Products

Tempe, AZ

RF Engineer – Circuit Board Designer – User Terminals

November 2014-November 2017

- Designed and verified 20 and 30 GHz circuits (LNA, wire bond transitions, filters, rat-race couplers) with Agilent ADS and Ansys Electronics Desktop.
- Created a feedback process from wire bond manufacturing to interface design modeling software.

Viasat Advanced Microwave Products

Gilbert, AZ

RF Engineer – SiGe/GaN/GaAs Designer – Military Products

July 2013-November 2014

- Designed amplifiers and matching circuits for a Ka band radar SiGe transceiver chip in the Jazz SBC18HA process.
- Designed and simulated Ku band LO Poly-Phase Filter in a TriQuint GaAs process

Lockheed Martin Space Systems Company

Sunnyvale, CA

Systems Engineering Intern – THAAD Program Electronics

May-August 2012

- Analyzed data and conducted tests for a RF curl antenna/coupler, ignition systems, and a Schmitt crystal oscillator.
- Efficiently communicated technical analyses to customers, sub-contractors, management, and subject matter experts

EDUCATION

Arizona State University

Tempe, AZ

M.S.E Electrical Engineering (Electromagnetics, Wireless Communications, Systems Engineering)

Spring 2017

University of Michigan

Ann Arbor, MI

B.S.E in Electrical Engineering

April 2013

Courses: Analog Integrated Circuits, Microwave Circuits I, Monolithic Amplifier Circuits, Electromagnetics II, Digital Signal Processing, Probabilistic Methods in Engineering, Analog Circuits, Semiconductor Device Physics, Intro to Logic Design, Programming & Data Structures, Intro to Thermodynamics, Economic Decision Making, Financial Accounting

AWARDS

Model Based Systems Engineering Fundamentals Certificate Program

December, 2022

William J. Branstrom Freshman Prize (Awarded to top 5% of freshman class)

Fall 2009

ACTIVITIES

Underwater Hockey, Hiking, Yoga; Gamer; self-hosting infrastructure with Unraid, Docker, Ubuntu, and Tailscale (<https://github.com/iancleary/infra>); open-source advocate (<https://github.com/iancleary>) and automation enthusiast (<https://galaxy.ansible.com/iancleary>); cooks an excellent Orzo al Limone; listening to podcasts and audiobooks.