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Thomas Novlan

Sr. Comm Systems Design Engineer @ Amazon - Project Kuiper

← Experience



Sr. Comm Systems Design Engineer

Amazon · Full-time

Mar 2024 - Present · 4 mos

Austin, Texas, United States

Project Kuiper



AT&T Labs, Inc.

Full-time · 7 yrs 9 mos

- **Expert Member of Technical Staff**

Jan 2024 - Mar 2024 · 3 mos

Austin, Texas, United States · On-site

Wireless communications technology R&D for 5G Advanced/6G radio access networks

- **Lead Member of Technical Staff**

Jul 2022 - Jan 2024 · 1 yr 7 mos

Austin, Texas, United States

- **Principal Member of Technical Staff**

Jul 2016 - Jun 2022 · 6 yrs

Austin, Texas

- 5G research and development
- Cellular network modeling, performance evaluation, and optimization
- 3GPP RAN WG standards delegate



Samsung Electronics America

Full-time · 4 yrs 2 mos

Richardson, Texas

- **Staff Research Engineer II, Samsung Research America**

Apr 2016 - Jun 2016 · 3 mos

5G wireless communications network system design and research.

- **Staff Research Engineer, Samsung Research America - Dallas**

Sep 2014 - Mar 2016 · 1 yr 7 mos

Next-generation wireless communications technology research, development, and standardization.

- **Senior Research Engineer, Samsung Research America - Dallas**

May 2012 - Aug 2014 · 2 yrs 4 mos

System design and standardization for 4G-and-beyond wireless technologies and networks.



Radio Technology Group - Technical Intern

AT&T Labs, Inc.

May 2011 - May 2012 · 1 yr 1 mo

Austin, TX

Systems design and research for 4G wireless networks:

- Led development of heterogeneous network and inter-cell interference coordination capability for LTE-Advanced simulation environment
- Participated in technology evaluation and network planning processes



Graduate Research Associate

University of Texas at Austin

Aug 2007 - May 2012 · 4 yrs 10 mos

Austin, Texas

Development of stochastic analytical models for resource allocation and interference coordination strategies in next-generation and heterogeneous wireless broadband networks



Wireless Communications Lab - Technical Intern

Intel

Jun 2010 - Aug 2010 · 3 mos

Santa Clara, California

Researched and evaluated advanced PHY/MAC enhancements for next-generation WLAN standards in the UHF/VHF bands

- Contributing member of IEEE 802.11 standards strategy team
- System simulation platform development (Matlab)



Corporate R&D - Technical Intern

Qualcomm

May 2008 - Aug 2008 · 4 mos

As a member of three person team:

- Integrated, tested, and modified hardware for a UHF-band, multi-antenna, spectrum sensing receiver prototype.
- Developed LabVIEW and MATLAB software for signal processing and spectrum sensing.
- Conducted numerous lab experiments and field trials.
- Participated in the system design and development process.



Senior Student Associate

Applied Research Laboratories

Jun 2005 - Aug 2005 · 3 mos

- Designed and built a prototype device for the testing of an experimental underwater acoustic source.
- Designed, maintained, and operated an acoustic data acquisition system.

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