Software Student, Drivers

Location: Israel, Tel Hai

NVIDIA is looking for a Software Student to join its Software R&D Linux kernel team. The position would be part of a team that implements and maintains sophisticated drivers and userspace libraries for groundbreaking network technologies.

What you’ll be doing:
- You will craft and implement kernel drivers for our state of the art network devices as well as userspace libraries.
- Collaborate and debug with teams across the globe to provide the best solutions for our customers.

What we need to see:
- A student for a B.Sc. degree in Computer Science or an equivalent degree, available to work at least 40%
- Strong C coding
- Excellent problem-solving and debugging skills
- Ability to self-manage and communicate effectively

Ways to stand out from the crowd:
- C programming experience
- Previous experience with kernel and community
- An experience in driver development
- Strong networking knowledge

NVIDIA is widely considered to be one of the technology world’s most desirable employers. We have some of the most brilliant and talented people in the world working for us. If you’re creative and autonomous, we want to hear from you! NVIDIA is committed to encouraging a diverse work environment and proud to be an equal opportunity employer. As we highly value diversity in our current and future employees, we do not discriminate (including in our hiring and promotion practices) on the basis of race, religion, color, national origin, gender, gender expression, sexual orientation, age, marital status, veteran status, disability status or any other characteristic protected by law.

CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

Chip Architecture Student

Location: Israel, Yokneam & Tel Aviv

We are now looking for a motivated Chip Architecture Student to use your creativity to work on the ConnectX network adapter with the highly inventive and knowledgeable team. Our technology has no boundaries! NVIDIA is building the world’s most groundbreaking and state of the art compute platforms for the world to use. It’s because of our work that scientists, researchers and engineers can
advance their ideas. At its core, our visual computing technology not only enables an outstanding computing experience, it is energy efficient! We pioneered a supercharged form of computing loved by the most fast paced computer users in the world - scientists, designers, artists, and gamers. It’s not just technology though! It is our people, some of the brightest in the world, and our company diverse culture make NVIDIA one of the most fun, innovative and dynamic places to work in the world! At the center of NVIDIA's culture are our core values like innovation, excellence and determination and team, that guide us to be the best we can be.

What you'll be doing:
- Be part of the team that define the Network Adapter chip architecture end to end from the market requirements through design and all product life cycles (post/pre silicon, on deployments).
- Work with related industry standards & customers on deploying your tech.
- Collaborate with teams across teams (physical design, logic design, system software, firmware, applications).
- Perform research and analysis for current and future architectures.
- Develop Proof of Concepts using our technology, collaborating with our most sophisticated customers on the state-of-the-art innovations.

What we need to see:
- Student for B.Sc. in Electrical or Computer Engineering.
- Programming skills.
- Knowledge and understanding of compute and networking systems.
- Your can-do attitude and high energy with leadership and excellent interpersonal skills and possess ability to learn complex concepts in a fast pace environment.
- An utmost passion towards attention to details on design and high focus on design quality.

Ways to stand out from the crowd:
- Experience and love for system architecture, CPU/GPU/Memory/Storage/Networking.

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CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

Advanced Development Student

Location: Yokneam & Tel Aviv-Yafo

We are looking for a creative Software Architecture Student to lead the shaping of future data centers and networks. The network advanced development group is chartered to research and incubate emerging technologies in networking and distributed computing for the modern data center, covering High-Performance Computing, Storage, Big Data, Cloud, network programmability, end-to-end network software stacks, and SDN. Software Architects represent us in open-source projects, conferences, and standard bodies.

What you'll be doing:
The main role is developing proof-of-concept implementations of new technologies, and thereafter guiding their incorporation in company products. This includes software development and architecture, ranging from application behavioral analysis and algorithms, network simulations, middleware, and API design, down to implementing OS subsystems, device drivers, FW, and HW modeling.
In addition, the position is both inbound and outbound facing:
- Inbound work includes authoring system specifications, reviewing software design, and analyzing performance bottlenecks.
Outbound work includes customers engagements, publishing white papers, blogs, RFCs, and conference lectures/BOFs.

**What we need to see:**
- Student for B.Sc., M.Sc. or Ph.D. in Computer Science or related field.
- Experienced with Ethernet/IP technologies in the data center or edge.
- Able to work independently, work with customers and guide R&D teams.

**Ways to stand out from the crowd:**
- Leadership in inventing new technologies leading to product impact.
- Demonstrated leadership in collaborative industry and active research projects.
- Demonstrated ability to prototype ideas and demonstrate their value.
- Software Architecture or Linux kernel experience.
- Hardware/Software/Firmware integrations.

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[CAREERS AT NVIDIA - Workday (myworkdayjobs.com)](https://www.workday.com)

**Software and System Architecture Student**

**Location: Yokneam & Jerusalem & Tel Aviv-Yafo & Kiryat Gat & Beer Sheva & Raanana**

We are now looking for a Software & Systems Architecture Student! NVIDIA has continuously reinvented itself over two decades. Our invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined modern computer graphics, and revolutionized parallel computing. More recently, GPU deep learning ignited modern AI — the next era of computing. NVIDIA is a “learning machine” that constantly evolves by adapting to new opportunities that are hard to solve, that only we can tackle, and that matter to the world. This is our life’s work, to amplify human creativity and intelligence. We are now looking for an outstanding networking SW and system architect intern to join the architecture group. You will join a team crafts the next generation of data center NICs and data processors (DPUs), driving advanced development projects to bootstrap new technologies. We have crafted a team of outstanding people stretching around the globe, whose mission is to push the frontiers of what is possible today and define the platform of tomorrow.

**What you'll be doing:**
- Working on advanced development projects that will help to craft the DPU/NIC future technologies
- Working closely with principal architects and engineers to craft the solution from scratch
- Researching of relevant solution exists in the ecosystem. decide what can be used and what should be extended.

**What we need to see:**
- Student for B.Sc., M.Sc. or Ph.D in Computer Science or related field
- Experienced with C/C++
- Ability to quickly adapt to new technology and deep dive into new areas
- Ability to work independently
- Strong communication and presentation skills
Ways to stand out from the crowd:
- Knowledge in Linux drivers and subsystems
- Knowledge in networking
- Background with emulation frameworks - QEMU, KVM, Hyper-V
- Knowledge in K8S and OVN

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CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

Firmware Student

Location: Beer Sheva & Tel Aviv-Yafo

We are looking for an excellent Software Student to join the NIC Firmware team. NVIDIA's Firmware team develops cutting edge networking features for cloud, HPC and storage. We drive the data growth of the world’s biggest companies. With many talented engineers around the globe, the work environment is dynamic, challenging and fast paced.

What you will be doing:
- Work closely with the architecture and different software design teams.
- Implement new features in the core of NVIDIA NIC firmware
- Develop verification tests for advanced features in a highly complex and sophisticated Firmware testing environment
- Gain a deep understanding of system debug, networking technology and stacks, as well as the HW/FW/SW relationship
- You will learn how a big software project is operated, maintained, qualified and released, and how Hardware and Firmware are developed

What we need to see:
- Student for a B.Sc. in Electrical Engineering, Computer Engineering or Computer Science
- Knowledge in C/C++
- Excellent understanding of data structures and algorithms fundamentals
- Scripting abilities (Python, Bash)
- Strong analytical, debugging and problem solving skills
- Motivated and independent with strong interpersonal skills

Ways to stand out from the crowd:
- Knowledge of network protocols
- Prior verification experience
- Real time programming, RTOS
- Knowledge in storage protocols
NVIDIA is widely considered to be one of the technology world’s most desirable employers. We have some of the most forward-thinking and hardworking people on the planet working for us. If you’re creative and autonomous, we want to hear from you!

NVIDIA’s invention of the GPU sparked the PC gaming market. The company’s pioneering work in accelerated computing—a supercharged form of computing at the intersection of computer graphics, high performance computing and AI—is reshaping trillion-dollar industries, such as transportation, healthcare and manufacturing, and fueling the growth of many others.

In 2020, NVIDIA acquired Mellanox, a leading supplier of end-to-end Ethernet and InfiniBand intelligent interconnect solutions and services for servers, storage, and hyper-converged infrastructure. Mellanox intelligent interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance.

[CAREERS AT NVIDIA - Workday (myworkdayjobs.com)]

**Board Design Hardware Student**

**Location:** Raanana

Our switches team in Raanana, Israel is looking for a student for Electrical Engineering to join the Hardware Team. The team leads the development of next generation Network Switches for high-speed communication products.

NVIDIA’s Networking division is a leading supplier of innovative end-to-end InfiniBand and Ethernet connectivity solutions and services for servers and storage. We offer market-leading solutions that include adapter cards, switches, cables and software to support networking technologies. Our products optimize data center performance and deliver industry-leading bandwidth and scalability. In addition, we serve a wide range of markets including high performance computing, enterprise, data centers, cloud computing, big data and Web 2.0. We are constantly reinventing ourselves to stay ahead of the market and bring groundbreaking products and services to the industry. Our product line is focusing on delivering the most optimized Ethernet solutions for industries like Media and Entertainment as well as any other industry that can benefit from our Datastream and TCP/IP acceleration.

**What you’ll be doing:**
- Board designer in the HW team is part of the system design team.
- The position consists of product specification, electrical schematics, component selection, layout guidance, hands-on development and testing in a lab environment, accompanying production and qualification processes.

**What we need to see:**
- 3rd or 4th year student for a B.Sc. in Electrical Engineering
- Electrical HW orientation
- Personal: Project management skills, independent, excellent interpersonal relationship

**Ways to stand out from the crowd:**
- Knowledge in analog and digital electrical circuits, system-level understanding
- Background in board design: schematics, layout, thermal design, mechanical design, PCB fabrication, product qualification and lab experience

NVIDIA is widely considered to be one of the technology world’s most desirable employers. We have some of the most talented and forward-thinking individuals in the world working for us. If you’re creative and autonomous, we want to hear from you!
NVIDIA is committed to fostering a diverse work environment and proud to be an equal opportunity employer. As we highly value diversity in our current and future employees, we do not discriminate (including in our hiring and promotion practices) on the basis of race, religion, color, national origin, gender, gender expression, sexual orientation, age, marital status, veteran status, disability status or any other characteristic protected by law.

CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

High Speed Optical Transceiver Design Student

Location: Yokneam

We are looking for an Electrical Engineering Student who seek to see the big picture of optical transceiver design. This essential role will give you a rare opportunity to craft and deliver a new class of products, aimed at delivering data at incredible speeds, leading the world of high-speed optical communication to new extremes.

What you’ll be doing:
- Design new products from concept development, through components selection and detailed design of electrical schematics
- Lead the product design in all fields (Mechanical, FW, Optics, Thermal, etc.)
- Work in the optical lab to evaluate and improve the product performance
- Write Python scripts
- Work with multiple operational groups inside and outside the company, suppliers and manufacturers

What we need to see:
- Student for a B.Sc. or M.Sc. in Electrical Engineering
- A passion for personal/educational projects
- The willingness to work in a high paced project development environment
- Excellent interpersonal and written communication skills required

Ways to stand out from the crowd:
- Previous experience with developing Python scripts
- Knowledge in analog electrical circuits
- Knowledge in fiber-optic communication and high speed signals
- Experience with optoelectronic lab work

NVIDIA is widely considered to be one of the technology world’s most desirable employers. We have some of the most forward-thinking and hardworking people in the world working for us. If you're creative, ambitious and enjoy having fun, then what are you waiting for apply today!

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Signal and Power Integrity Student

Location: Yokneam

We are looking for a Signal & Power Integrity Student to join our team. NVIDIA has been redefining computer graphics, PC gaming, and accelerated computing for more than 25 years, and is now shaping the next era of computing. It’s an outstanding innovation hub fueled by phenomenal technology—and amazing people! We are constantly reinventing ourselves to stay ahead of the market and bring groundbreaking products and services to the industry. NVIDIA is widely considered to be one of the technology world’s most desirable employers. Doing what’s never been done before takes vision, innovation, and the world’s best talent. As an NVIDIAN, you’ll be immersed in a diverse, supportive environment where everyone is inspired to do their best work. Come join the team and see how you can make a lasting impact on the world.

What you'll be doing:
- Characterization of high frequencies PCB, connectors and cable channels up to 200Gb/s per lane.
- Design layout guidelines for our systems.
- Simulate passive and active elements in 3D and 2D simulation tools.
- Measure systems in the lab using Network Analyzer, TDR and scope.
- Master InfiniBand, Ethernet and PCI-Ex Layer 1 specifications and implementation methods.
- Work in intense environment and control multi-discipline expertise.

What we need to see:
- B.Sc. student in Electrical Engineering after minimum 5 semesters OR M.Sc./Ph.D. student in Electrical Engineering.
- Completed course in Electromagnetic Fields and Waves & Distributed Systems

Ways to stand out from the crowd:
- Familiar with 3D EM simulators such as HFSS (Ansys)/Momentum (ADS) / Microwave Studio (CST)
- Experience in Lab tools such as Network Analyzer, Scope, TDR
- Familiar with InfiniBand, Ethernet and PCI-Ex Layer 1 specifications
- Design of High Speed Digital Systems

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Location: Tel Aviv-Yafo

NVIDIA is looking for best-in-class Chip Design Engineers to join our outstanding Networking Silicon Engineering team, developing the industry's best high-speed communication devices, delivering the highest throughput and lowest latency! Come and take a significant part in designing and verifying our groundbreaking and innovating chips, enjoy working in a meaningful, growing and highly professional environment where you make a huge impact in a technology-focused company.

What you'll be doing:
- Work in a combined design and verification team.
- Design and verification for chip blocks/entities according to specifications under challenging constraints and with high orientation to power, area, and performance.
- Daily work involves all aspects of chip development: Design, Micro-Architecture, Firmware, Production, and Verification.

What we need to see:
- B.SC./M.SC. student in Computer Engineering/Electrical Engineering/Communication Engineering
- Completion of programming and logic design courses with high scores.
- A team player with good communication and interpersonal skills.
- High Level of English

Ways to stand out from the crowd:
- Background in Specman.
- Knowledge in HDL (Verilog/VHDL)

NVIDIA has some of the most forward-thinking and hardworking people in the world working for us and, due to unprecedented growth, our world-class engineering teams are growing fast. If you're a creative and autonomous engineer with a real passion for technology, we want to hear from you. We are committed to fostering a diverse work environment and proud to be an equal opportunity employer. As we highly value diversity in our current and future employees, we do not discriminate (including in our hiring and promotion practices) on the basis of race, religion, color, national origin, gender, gender expression, sexual orientation, age, marital status, veteran status, disability status or any other characteristic protected by law.

CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

Chip Design Student

Location: Yokneam

We are now looking for a Chip Design Student for the Network Adapter Silicon group. As a Chip Design Student at NVIDIA Networking business unit, you'll join a group of passionate engineers and students to design and implement the next generation state of the art Network Adapter Silicon chips. In this position, you'll make a real impact in a dynamic, technology-focused company while developing the industry's best high-speed communication devices, delivering the highest throughput and lowest latency!

What you'll be doing:
- Work in a combined design and verification team which develops some of the Network Adapter silicon core units.
- Build reference models, verify and simulate chip blocks/entities according to specifications under challenging constraints with high orientation to performance.
- Partner closely with multiple teams within organizations such as Architecture, Micro-Architecture, and FW.

What we need to see:
• Studies toward B.Sc. in Electrical Engineering or Computer Engineering.
• Completion of programming and logic design courses with high scores.
• A team player with good communication and interpersonal skills.

NVIDIA has some of the most forward-thinking and hardworking people in the world working for us. Are you creative and autonomous? Do you love the challenge of crafting the highest performance & lowest power silicon possible? If so, we want to hear from you. Come, join our Network Adapter Silicon design team and help us build the next chip in this exciting and quickly growing field.

CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

Deep Learning Architecture Student

Location: Yokneam

We are looking for a student for NVIDIA Deep Learning Inference architecture team. As part of our Architecture team, we work with the most exciting computing hardware and software, driving the latest breakthroughs in deep learning and artificial intelligence. This role offers an excellent opportunity to expand your career in the rapidly growing field of artificial intelligence. We need a passionate, hard-working and creative individual to help us optimize future GPU hardware and software solutions for DL.

What you’ll be doing:
• Influencing future hardware and software for DL acceleration over GPU solution.
• Prototyping software solutions to take advantage of advance hardware features, analyzing performance and efficiency, improving the solution and recommending on productization options.
• Analyze performance and power of current and future GPUs.
• This will be done across most advanced NNs and state of the art GPU HW.
• Increase your knowledge of different NNs, hardware bottlenecks and software graph compilation techniques.

What we need to see:
• Student for B.Sc. in Electrical Engineering or Computer Engineering.
• Ability to self-manage, good analytical skills, and communicate well.
• Tight-knit teamwork and interpersonal skills.
• Action oriented with strong analytical and problem-solving skills.

Ways to stand out from the crowd:
• CUDA experience.
• Experience working with deep learning frameworks will be an added advantage.
• Higher education researches in the space of hardware architecture for DL.

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CAREERS AT NVIDIA - Workday (myworkdayjobs.com)
Firmware Student

Location: Yokneam

We are looking for an excellent Firmware Student to join the NIC Firmware team. The Firmware team develops cutting-edge networking features for cloud, HPC and storage. We drive the data growth of the world’s biggest companies. With talented engineers around the globe, the work environment is dynamic, meaningful and fast paced.

What You Will Be Doing:
- Work closely with the architecture and different software design teams
- Implement new features in the core of NVIDIA NIC firmware
- Develop verification tests for advanced features in a highly complex and sophisticated Firmware testing environment
- Gain a deep understanding of system debug, networking technology and stacks, as well as the HW/FW/SW relationship
- You will learn how a big software project is operated, maintained, qualified and released, and how Hardware and Firmware are developed

What We Need To See:
- Student for a B.Sc. in Computer Science/Engineering (or equivalent experience)
- Strong C/C++ capabilities
- Excellent understanding of data structures and algorithms fundamentals
- Scripting abilities (Python, Bash)
- Strong analytical, debugging and problem-solving skills
- Motivated and independent with strong interpersonal skills

Ways To Stand Out From The Crowd:
- Knowledge of network protocols
- Prior verification experience
- Real-time programming
- Knowledge in storage protocols
- Experience with Agile methods

NVIDIA is widely considered to be one of the technology world’s most desirable employers. We have some of the most forward-thinking and hardworking people on the planet working for us. If you're creative and autonomous, we want to hear from you! In 2020, NVIDIA acquired Mellanox, a leading supplier of end-to-end Ethernet and InfiniBand intelligent interconnect solutions and services for servers, storage, and hyper-converged infrastructure. Mellanox intelligent interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance.

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CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

DFT Student
Are you passionate about working on a team that is at the cutting and bleeding edge of hardware technology? Our Design-for-Test Engineering team at NVIDIA works on groundbreaking innovations involving crafting creative solutions for DFT architecture, verification and post-silicon validation on some of the industry’s most sophisticated semiconductor chips. We are looking for an experienced DFT Engineer to join the ATPG team. The position includes taking part in development of the next generation DFT technologies, and working closely with a wide range of our groups and aspects - chip design, backend, verification, and production testing.

Working on the most advanced technologies and complex products, our DFT solution are unique and innovative internal developments, and we are continuously improving and evolving the solution to meet the challenging goals. If you find groundbreaking Technologies, and next generation products interesting, then this is the team for you. Take opportunity to join our team for an exciting and educational environment, where every individual has significant contribution to our products and achievements!

What you’ll be doing:
- You will be part of state of the art Design for Test/ATPG flows and implementation
- Take ATPG ownership on different DFT aspects of a project, Arch & planning, pattern generation, verification and post silicon bring up and diagnosis.
- Inventing and maintaining automation flows that provide the short test time to production

What we need to see:
- Strong programming skills in scripting languages
- 3rd or 4th-year student in Electrical Engineering or Computer Engineering
- Grade sheet
- Quick learner, proactive and self-motivated, eager to learn and contribute, sense of ownership, commitment, and responsibility

Ways to stand out from the crowd:
- Knowledge in ASIC/VLSI
- Programming languages: TCL, PRL, Phyton & Unix shell scripts
- Knowledge of DFT including scan, BIST, on-chip scan compression, fault models, ATPG, and fault simulation

NVIDIA is widely considered to be one of the technology world’s most desirable employers. We have some of the most brilliant and talented people in the world working for us. If you're creative and autonomous, we want to hear from you! You will have the opportunity to work on some of the most incredible products on the market today.

CAREERS AT NVIDIA - Workday (myworkdayjobs.com)

Formal Verification Student

Location: Yokneam

We are looking for a Formal Verification Student for our NVIDIA Networking team! This is an exciting opportunity to join a hardworking Pre-Silicon design and verification team, working on groundbreaking NIC technologies. We deploy state-of-the-art formal verification tools and methodologies to prove design correctness. Working in our formal verification team will expose you to a wide range of cutting edge design and technologies. Our NIC team delivers world class CPU interface and offload solutions for HPC, data-center, network, and storage markets. We micro-architect, verify, and deliver the best and most widely used high BW ethernet and IB NICs in the industry. NVIDIA has the most sophisticated formal tools
and methodologies in the industry, which help us achieve A0 design tapeouts. As part of this team, you’ll enjoy a versatile work environment, which is educational, dynamic and ambitious.

**What you’ll be doing:**
- In this position you will use formal verification algorithms to formally prove the correctness of complicated logic problems.
- Work on ambitious designs along with our Pre-Silicon team and take part in developing the next generation of NVIDIA's core technology.

**What we need to see:**
- Student during BSc in Electrical/Computer Engineering
- Excellent analytical, logical reasoning and problem-solving skills.
- Strong debugging and analytical skills.
- Solid communication and interpersonal skills are required.

NVIDIA has some of the most forward-thinking and hardworking people in the world working for us. Are you a creative and autonomous engineer who loves a challenge? Come join our team and help us build the future HPC and data centers.

**CAREERS AT NVIDIA - Workday (myworkdayjobs.com)**

**Chip Architecture Student**

**Location: Yokneam & Tel Aviv-Yafo**

We are now looking for a motivated Chip Architecture Student to use your creativity to work on the ConnectX network adapter with the highly inventive and knowledgeable team.

Our technology has no boundaries! NVIDIA is building the world’s most groundbreaking and state of the art compute platforms for the world to use. It’s because of our work that scientists, researchers and engineers can advance their ideas. At its core, our visual computing technology not only enables an outstanding computing experience, it is energy efficient! We pioneered a supercharged form of computing loved by the most fast paced computer users in the world - scientists, designers, artists, and gamers. It’s not just technology though! It is our people, some of the brightest in the world, and our company diverse culture make NVIDIA one of the most fun, innovative and dynamic places to work in the world! At the center of NVIDIA’s culture are our core values like innovation, excellence and determination and team, that guide us to be the best we can be.

**What you’ll be doing:**
- Be part of the team that define the Network Adapter chip architecture end to end from the market requirements through design and all product life cycles (post/pre silicon, on deployments).
- Work with related industry standards & customers on deploying your tech.
- Collaborate with teams across teams (physical design, logic design, system software, firmware, applications).
- Perform research and analysis for current and future architectures.
- Develop Proof of Concepts using our technology, collaborating with our most sophisticated customers on the state-of-the-art innovations.

**What we need to see:**
- Student for B.Sc. in Electrical or Computer Engineering.
- Programming skills.
- Knowledge and understanding of compute and networking systems.
- Your can-do attitude and high energy with leadership and excellent interpersonal skills and possess ability to learn complex concepts in a fast pace environment.
- An utmost passion towards attention to details on design and high focus on design quality.

**Ways to stand out from the crowd:**
Experience and love for system architecture, CPU/GPU/Memory/Storage/Networking. NVIDIA has some of the most forward-thinking and talented people in the world working for us. If you're creative and autonomous, we want to hear from you!

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