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Chief Software Strategist - Technology Systems

- Define medium- and long-term software strategy
- Creation of company-wide development standards
- Lead architect on strategic projects
- Special projects: infrastructure, security, global initiatives
- Occasional support for complex technical issues

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Research Questions

Routing Protocol - DMPR

- Target scenario: router with multiple links to neighbor routers - each with different capabilities
- Focusing on highly dynamic topologies; low bandwidths & high loss characteristics
- Policy routing capabilities built-in

Linux Analysis

- Power Management C-State Optimization
- Potential impact of eBPF beside Networking and Cloud? Task & IO scheduling, energy aware scheduling, …?

Sensor Networks and Neural Networks

- Convolutional Neural Networks (CNNs) for audio fingerprinting
- MANET synchronization combined with consensus algorithms

HTTP/3 in Low Bandwidth Networks

- Can HTTP/3 cope with low(est) bandwidth/lossy networks (<50kbit/s)?
- Interoperability problems resulting from CC/IWx modifications?

RISC-V

- The end of closed Trusted Execution Environments like Arm Trust Zone and Smartcards?