

Final Project Report

Final Project Report

Course: China Communications

Instructor: Zhe Zhang

Date: 2025. 05. 08

Project Objective



- Apply course concepts to real-world issues or emerging technologies
 - Demonstrate understanding of communication systems and technologies
 - Strengthen academic writing, research, and critical thinking
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Suggested Topics

1. 📡 **The Evolution of Telecommunication Technologies:** From Telegraph to 6G
 2. 🌐 **Comparative Analysis:** Computer Communication vs Cellular Communication
 3. 🌐 **IPv6 Deployment in China:** Progress, Challenges, and Future Outlook
 4. 🖥️ **Stuxnet and the Role of Communication Networks in Cybersecurity**
 5. 🌐 **The Structure and Functioning of DNS and Its Global Root Server System**
 6. 🏙️ **IoT in Smart Cities:** A Case Study of Hangzhou's Intelligent Traffic System
 7. 🚀 **Satellite Communication and Its Role in Disaster Recovery**
 8. 🚗 **The Role of 5G in Enabling Autonomous Driving**
 9. 🤖 **AI-Driven Communication:** Opportunities and Ethical Considerations
 10. 📶 **Channel Capacity and Shannon's Legacy:** Implications for Modern Networks
 11. 📱 **A Comparative Study of Cellular Generations (1G to 5G) and the Road to 6G**
 12. 🏭 **Communication Networks in Industrial IoT (IIoT):** Industry 4.0
 13. 🛠️ **Datacenter Networking (DCN) for AI Training and Inference**
 14. 🖥️ **A Study of the Modern Router and Switch:** Historical Significance and Legacy
 15. 🌐 **Global Navigation Satellite Systems:** China's BeiDou vs. GPS
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Report Requirements

- 📄 **Length:** 3000–5000 words
- 📖 **At least 5 credible references** (IEEE, ACM, etc.)
- 📊 **Include visuals:** figures, tables, charts if needed

-  **Demonstrate your own understanding and judgment**
-  **Clearly explain technical terms** and relate them to real-world cases

Suggested Report Structure

1. **Introduction & Motivation**
2. **Background / Literature Review**
3. **Analysis / Case Study / Comparison**
4. **Your Viewpoint / Discussion**
5. **Conclusion**
6. **References** (IEEE or APA format)

Evaluation Criteria

Criteria	Description	Weight
Technical Understanding	Mastery of concepts, accuracy in explanation	30%
Depth of Analysis	Depth, originality, and critical thinking	25%
Structure & Clarity	Logical flow, clear language, good formatting	20%
Personal Insight	Thoughtful judgments or reflections	15%
References & Citation	Use of reliable sources and proper citation format	10%

Submission Guidelines

- **Format:** Hardcopy
- **Deadline:** May 8
- **Late Policy:** -15% per week (unless approved in advance)
 - **Notice:** I will be collecting reports on April 24. After class, I will no longer be going to the new campus. Therefore, **students must submit their reports directly to my office** during my office hour (3:00 - 4: 00 PM Tuesday).
 - Location: Sanpailou Campus, Research Building, Room 1408

Questions?

- Feel free to ask in class or email: zhezhang@njupt.edu.cn
- Topic suggestions or approval available upon request