



SYSTEMS
DESIGN



R&N Systems Design Brochure

R&N Systems Design LLC
615 Oakleaf Office Lane
Memphis, TN 38117

FROM:

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R&N Systems Design is a national leader in detention security design. R&N performs multiple jail and prison detention new construction and retrofits every year. Many are whole system replacements including detention hardware, detention glazing, fire alarms, locking control PLC's, HMI's intercoms, paging, IP video, perimeter detection, duress systems, and more. Our retrofit projects extend from Riker's Island to the most secure facility in the Country, ADX Supermax. Because of our extensive retrofit experience and our presence throughout the United States, we are pleased to present our qualifications for this project.

Justice facilities are complex systems, where safety and security levels must be maintained every second of the day. This is why the building codes have their own section for justice facilities, (Group I-3). R&N has multiple licensed Professional Engineers with careers devoted to the building codes in these occupancies. You want this kind of experience working on your projects. As a full time justice consultant, we understand the physical toll residents can have on a smoke detector, the impact of PREA requirements on camera layouts, and the differences in man down systems. These are just a few examples of why you want to work R&N.

Another reason is our experience. If you add the years of our staff in this industry, we have combined for over a century worth of justice experience. This experience includes design, estimation, construction, installation, and maintenance. When our construction administration representative has twenty plus years of on-the-job construction experience, the benefit you receive is immeasurable.

Most importantly, you want to work with us because of our willingness to work with you. We understand that all facilities are different. You might not want to run your facility like our SCORE project in Seattle, or our Clark County project in Las Vegas. Our willingness to help you understand your options and work as a team to create an efficient design is what separates us. It's why Owners, Architects and General Contractors use R&N again and again on their retrofit and new design work.

Hopefully, the information in this response provides you with a comfortable understanding of R&N Systems Design. Looking forward to hearing from you!

Chris Nielsen, Principal
R&N Systems Design

Chris Nielsen, PE

Principal, Professional Engineer
Security Consultant, R&N Systems Design



Mr. Nielsen is skilled in the development of electronic and physical security. His projects include security designs for prisons, jails, courthouses, and police stations. He is the engineer of record for projects extending from Riker's Island to the State of Hawaii, Seattle to the U.S. Virgin Islands, and many points in between.

Mr. Nielsen will serve as the Principal in Charge, Engineer of Record, and Project Manager for R&N Systems Design.

Education

- Bachelor of Science in Electrical Engineering, Minor in Mathematics
Christian Brothers University, 2007

Years of Experience

- 14 years with R&N

Professional Licenses

- Licensed in a total of 14 states.
- Wisconsin PE License #47112-6

Professional Affiliations

- National Society of Professional Engineers (NSPE)
- Tennessee Society of Professional Engineers (TSPE)
- Building Industry Consulting Service International (BICSI)

Awards/Accolades

- 2007 President's Award for Engineering

Employment History

- 2008-Present: R&N Systems Design, LLC,
Security Consultant

Professional Experience

Mr. Nielsen is adept in the latest card access, IP camera, detention hardware, and PLC locking control systems. He has more than 14 years of experience in Building Information Modeling (BIM), computer aided drafting, network design, and project management in the Justice sector. Mr. Nielsen has an intricate knowledge of computer, electrical, low voltage security, communication, and fire alarm system design. In his spare time, Mr. Nielsen enjoys golf, travel, and going fishing with his wife and dog.

Michael Dean Williams

Principal
Security Consultant, R&N Systems Design



Mr. Williams is accomplished in multi-project, multi-disciplined environment and is skilled in achieving cost reduction through analysis, innovation and problem solving.

Education

- High School Graduate, 4 years Nashville Tech (Trade School), course of study: electronics and electrical systems

Years of Experience

- 32 years (14 years with R&N)

Employment History

- 2008-Present: R&N Systems Design, LLC, Security Consultant
- 1990-2006: ESI Companies, Inc., Field Superintendent

Professional Experience

Mr. Williams has more than 30 years of experience in project management, jobsite construction management, quality assurance, logistics support, integrated engineering, operations, and systems installation. He has extensive experience with private industry and state government programs and systems. Mr. Williams offers a wealth of "hands on" knowledge of electrical, low voltage security, communication and fire alarm system design, integrations, and installation practices.

Frank Niedzwiedz, Jr., PE

Principal, Professional Engineer
Security Consultant, R&N Systems Design



Mr. Niedzwiedz has dedicated his 36-year career to justice and correctional facilities focusing on the low voltage electronics systems.

Education

- Bachelor of Science, Electrical Engineering, Christian Brothers University, 1982

Years of Experience

- 37 years (22 years with R&N)

Professional Licenses

- Licensed in a total of 31 states.

Professional Affiliations

- Institute of Electrical and Electronics Engineers (IEEE)
- National Society of Professional Engineers (NSPE)
- Tennessee Society of Professional Engineers (TSPE)
- American Correction Association (ACA)
- America Jail Association (AJA)

Awards/Accolades

- 2014 Outstanding Engineer of the Year Award / TSPE-Memphis Chapter

Employment History

- 2000-Present: R&N Systems Design, Owner/PE
- 1995-2000: ESI Companies, Inc., Director of Engineering
- 1984-1995: Simplex, Building Systems Sales Rep.

Professional Experience

Mr. Niedzwiedz responsibilities have included security systems assessments, systems design, construction administration, and commissioning while utilizing the latest technologies to serve the client's needs. Mr. Niedzwiedz is licensed in 31 states where he has worked on projects utilizing his extensive background for the design of correctional facilities. His years of education and experience have enabled him to deal with the integration of complex low voltage systems on all size projects for Federal, State, and local jurisdictions. The design of fire alarm systems is Code intensive as well as working with Fire Marshalls and Code officials to comply with local requirements.



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Dennis Sebo

Principal
Security Consultant, R&N Systems Design

Mr. Sebo has dedicated his career to Industrial Maintenance and Correctional Facilities.



Education

- Bachelor of Science, Electrical Engineering, University of Memphis, 2001

Years of Experience

- 36 years (15 years with R&N)

Employment History

- 2007-Present: R&N Systems Design, LLC, Principal
- 2006-2007: Stanley Security Solutions, Field Operations Manager
- 1996-2006: ESI Companies, Inc., Engineering Manager

Professional Experience

Mr. Sebo has focused on low voltage electronic systems that served the security and Life-Safety needs of the correctional industry. He has had a hands-on role in over fifteen low-voltage system prison retrofit projects as the lead design engineer. More specifically, his responsibilities have included systems design, fabrication documents and construction administration while utilizing the latest technologies to serve the client's needs. His years of education and experience have enabled him to deal with the integration of complex low voltage systems on all size projects for state and local jurisdictions.



Experience

R&N has chosen a few projects from an extensive list to illustrate that our firm can perform the scope of work you are requesting. Please refer to each project references and additional information. All of R&N's projects are performed out of our single office in Memphis, Tennessee.

If you require any additional information or references, please feel free to ask.

Snohomish County Correctional Facilities



Address:

3025 Oakes Street
Everett, WA 98201

Square Footage: ~300,000 SF

Project Value: ~\$1.5 million (Security Electronics)

Duration: 2011-2014 and 2022 – ~2024

This project involved the remodeling of a two-building facility in downtown Everett. The project took place in phases and included a complete renovation of the security and safety electronics that included PLC equipment, video system upgrade, integrated digital intercom system, and card access system work. The video system upgrade and digital intercom system replacement design is an active project with design taking place in 2022.

Clark County Detention Center



Address:

330 S Casino Center Blvd
Las Vegas, NV 89101

Square Footage: 313,000 SF

Project Value: ~\$6.7 million (Security Electronics)

Duration: 2014 – 2018

This project involved the remodeling of a twelve-story tower in downtown Las Vegas. The project took place in phases and included a complete renovation that included mechanical, architectural, electrical, and detention work.

Part of the renovation included upgrading from analog to IP video and the replacement of a locking control system. Phase II (North Tower) design took place 2014-2015, and construction finished in early 2018.

CoreCivic Facilities Nation-wide



Address:

Locations Nation-wide

Square Footage: Varies

Project Value: ~\$1 million (Security Electronics at each)

Duration: 2020 – Present

These projects involve the replacement of locking control, intercom, and fire alarm systems in multiple correctional institutions across the country. R&N Systems Design has designed and completed over 25 of these projects in the last five years in 14 states. These facilities are active during construction. They do not include video replacement but do include video integration into the new locking control and intercom systems.

Cowlitz County Jail, Longview, Washington



Address:

1935 1st Ave S

Longview, WA 98632

Square Footage: ~60,000 SF

Project Value: ~\$1 million (Security Electronics)

Duration: 2019 – 2020

This project involved the upgrading from analog to IP video and the replacement of a locking control system in an active county jail. This project was completed in 2020 and is located in the Pacific Northwest.

Marysville Civic Center



Address:

501 Delta Ave
Marysville, WA 98270

Square Footage: 20,848 SF

Project Value: ~\$6.7 million (Security Electronics)

Duration: 2019 – Present

This project involved the new construction of a multi-use correctional and civic center facility with locking controls, integrated IP video cameras and intercom system, fire alarm system, detention hardware and detention glazing, courtrooms, and city employee office space.

Tennessee Department of Correction Facilities



Address:

Locations State-wide

Square Footage: ~400,000 SF

Project Value: ~\$1 million (Security Electronics at each)

Duration: 2007 – Present

These projects involve the replacement of locking control, These projects include intercom, security and fire alarm systems in multiple correctional institutions across the state. R&N Systems Design has designed and completed over 3 of these projects in the last few years with several more on the list for completion in the next five years. These facilities are active during construction. They include video replacement and video integration into the locking control and intercom systems.