

# Alaric Spade

## Warehouse Worker

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Bismark, ND  
[LinkedIn](#)

### WORK EXPERIENCE

#### Northrop Grumman

Engineering Intern

Grand Forks, ND | 2021 - current

- Collaborated with 4 new-product development teams to build and connect lighting products and controls
- Communicated with 3 lead engineers to ensure project specifications were clear, complete, and achievable
- Ensured consistent design progression via CAD modeling reviews, thermal and mechanical analysis, and model retention
- Coordinated with 6 sourcing personnel to identify quality vendors and ensure the success of quotas and deliverables
- Designed and built 7 proof-of-concepts
- Wrote 30+ ECN reports to document changes to products

#### Terracon

Intern

Grand Forks, ND | 2019 - 2020

- Conducted 35+ field and laboratory testings of concrete, soil, asphalt, and aggregates
- Transported equipment, specimens, and documents to field personnel, providing physical assistance during set-up
- Assisted 26 technicians and professional staff by cleaning work areas and maintaining equipment
- Communicated information to 3 project managers and discussed findings to prepare reports for submittal
- Provided proper PPE and sanitation equipment for 100% of project site staff to ensure OSHA compliance

### PROJECTS

#### Solar Water Pump - Senior Project

2019 - current

- Built a prototype solar-powered DC water pump using photovoltaic (PV) panels for college senior project
- Pump runs on electricity generated by photovoltaic panels OR the radiated thermal energy available from collected sunlight
- The PV system size is dependent on the pump size, the amount of water required ( $m^3/d$ ), and the solar irradiance available
- Finished solar panel is expected to provide ~20 years of satisfactory service under normal conditions

### SKILLS

- Inventory Management
- Written Communication
- POCs
- Time Management
- OSHA Regulations
- Thermal Properties
- Mechanical Design, Approach, & Capability
- Prototyping
- CAD Modeling

### EDUCATION

#### Bachelor of Science Mechanical Engineering

University of North  
Dakota

2019 - current

Grand Forks, ND