# Austin J. Krekula

**Cyber Security Engineer**

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## Education

- **Iowa State University**, Ames, IA
  Starting Date: Jan 2019
  - o Bachelor of Engineering Degree: Cyber Security Engineering.
    Expected Graduation: May 2024
    - o GPA: 3.36/4.0

## Work Experience

- **Iowa Army National Guard**

  *Detachment 1$^{st}$ Platoon Assistant Platoon Leader 831$^{st}$ Engineer*  Jul 2020- Present
  - o Drafts job site binders for construction job sites, detailed goals, specifications, methods, and developing situations.
  - o Personnel management of group of 40+ individuals, organizes task delegation, and maintains goal-oriented posture.

  *Communications Section Leader 186$^{th}$ Military Police*  Mar 2020-Jul 2020
  - o Trained other soldiers in the use of radios, computer literacy, and other forms of communications equipment.
  - o Supervised communications equipment, including coordinating repairs and administrating documentation.
  - o Drove preparedness for COVID-19 mobilization, including preparing fleet of 10 HMMWV's with radios.

  *Communications Section Leader 831$^{st}$ Engineer*  Aug 2018-Mar 2020

- **Omaha District Army Corps of Engineers**

  *Cyber Security Engineering Technician*  May 2023 – July 2023
  - o Reviewed electrical and control system design specifications to ensure implementations were in-line with risk management publications: NIST SP 800-53, NIST SP 800-37, UFC 4-010-06, DoDI 8510.01, and DoDI 8500.01.
  - o Coordinated content between documents: design specification, design analysis, contract specification, and federal cyber policy applied to the Army Corps of Engineers to ensure projects were meeting policy standards.

## Collegiate Experiences

- **ISU Reserve Officer Training Corps**  Jan 2019 - Present
  - o Leads teams of 40 people in high stress, goal-oriented, complex tasks within short to mid-range time frames.
  - o Led fund raising for program up to $5000; coordinated working groups of cadets with organizations.
  - o Experience delegating tasks to peers with leadership or other special skills.

## Course Project Highlights

- **Computer Engineering Embedded Systems**

  *Integration of ARM Cortex M4 based Microcontroller with various I/O*  Aug 2021-May 2022
  - o Interrupt service routines (ISR), Memory Mapped I/O.
  - o Simplified processor architecture, program & data memory structure.
  - o UART base serial communication.
  - o Pulse Width Modulation (PWM).

- **Computer Organization & Assembly Programing**

  *Processor Chip Design, Single Cycle and Pipeline Processors*  Jan 2022-May 2022
  - o Programed in MIPS assembly language; translated C into MIPS assembly code.
  - o Designed single-cycle processor including its control and Datapath.
  - o Designed in-order processor pipeline with handling of control and data hazards.

## Honors and Awards

- Arts and Sciences of National Defense, Reserve Officers Association.  Spring 2021
- Soldier of the Year, 734$^{th}$ Regional Support Group.  Fall 2019
- Honor Graduate, Advanced Individual Training.  Spring 2018-Summer 2018
- Honor Graduate, Basic Training.  Fall 2017-Spring 2018

## Skills

Python|C|Java|Computer Forensics|Reverse Engineering in Hardware/Software|Network Protocols|Information Security Theory|