KARL GUSTAF HALLSBY

+1 (630) 815-782   Karl@Hallsby.com   LinkedIn: karlhallsby

SUMMARY

Responsible and independent self-starter. Quick-learning, and goal-oriented Masters degree student with knowledge of computer hardware and software design, and experience in leading projects in a multinational corporation. Expertise in digital hardware design, software engineering, and system security.

TECHNICAL PROFICIENCIES

Languages:
Java, Python, Visual Basic for Applications (VBA), MC68k Assembly, MIPS Assembly

Software:
Windows, Linux, Microsoft Office, LaTeX

Hardware:
Oscilloscope, Digital Logic Analyzer

PROFESSIONAL EXPERIENCE

Nalco Water, an Ecolab Company, Naperville, IL   May 2018 – August 2018
Intern   December 2017 – January 2018

Reviewed, revised, edited, and drafted technical manuals for equipment used in water treatment.

Created training materials for new employees and helped develop training curriculum.

Created automated templates and formatting macros for others to use in developing new manuals adhering to department standards.

Created code in VBA for automated pricing tools, integrating MS Word and MS Excel, and developed training materials for sales team.

Using Adobe RoboHelp, converted manuals to a cloud-based HTML5 version, allowing access to manuals from mobile phones, tablets, and laptop computers.

Developed system for version control.

Starbucks, Geneva, IL   June 2015 – August 2017

Reporting to the store manager, made handcrafted beverages, maintained clean facilities that exceeded health inspections.

Trained new employees on drink creation and standards.

EDUCATION/COURSE WORK

MS, Computer Engineering, Specialization in Computer Systems Software focus on Cybersecurity
  Illinois Institute of Technology, Chicago, IL, Expected Graduation: 2022

BS, Computer Engineering, Illinois Institute of Technology
  Chicago, IL, Expected Graduation: 2022

Digital System Design	DC/AC Circuit Analysis	Computer Architecture and Assembly
Data Structures and Algorithms	Object-Oriented Programming	Probability and Statistics

HONORS

Illinois Institute of Technology – High Honors Roll	2017-2018
Illinois Institute of Technology - Camras Scholarship	2017-Present
Batavia High School – Highest Honors Roll (>4.375 GPA)	2012-2017

OTHER ACTIVITIES

Triangle Fraternity, Armour Chapter   2018-Present
  Act as system administrator for the chapter's fileserver and webpage

Cyberhawk Security   2018-Present
  Participate in bug bounties, capture-the-flag competitions

Eta Kappa Nu, HKN   2018-Present
  Member of the IEEE honor society

Vice President Mixed Martial Arts Club   2017-Present
  Run meetings, Organize group events, Teach classes, and Coordinate with school to ensure the club's activities run smoothly

INTERESTS

Tang Soo Do
  Attending martial arts classes for 15 years. Currently 3rd degree black belt in Tang Soo Do. Certified instructor of Tang Soo Do.

Downhill Skiing

Music
  Played oboe for 10 years. Member of Batavia High School's highest rated orchestra, winning state awards.