

Kevin Liu

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EDUCATION

University of Illinois at Urbana-Champaign	GPA: 3.98/4.0
<u>Bachelor of Science in Mechanical Engineering, Minor: Computer Science</u>	May 2021
<i>Relevant Coursework:</i>	
Data Structures and Algorithms • Data Mining • Data Science and Visualization • Database Systems • Intro to Robotics	
<u>Master of Computer Science</u>	Dec 2024
<i>Relevant Coursework:</i>	
Web Programming • Bioinformatics	

WORK EXPERIENCE

Sargent and Lundy	June 2021 - August 2023
<i>Instrumentation & Controls Engineer</i>	<i>Chicago, IL</i>
<ul style="list-style-type: none">Justified 2 analog-to-digital level transmitter replacements for Monticello Nuclear Generating Plant. and 1 for South Texas Nuclear Generating StationSpecified replacement components for Analog Processing Controls for Prairie Island Nuclear Generating PlantRevised 6 setpoint/uncertainty calculations to bring the Prairie Island Nuclear Generating Plant into accordance with NRC Generic Letter 91-04.	
MathWorks	
<i>Engineering Development Group Intern – Release Engineering</i>	
<ul style="list-style-type: none">Developed 4 web apps with Javascript, HTML, and PHP to streamline creation and management of SCM branches through use of web API to automatically generate and send work requests to Systems Engineering teamInvestigated test and build failures within 2 different SCM branches, and collaborated with release engineers to implement fixesCreated two actionable error reports during company-wide Matlab and Simulink bug testing eventDeveloped Matlab app modeling spread of infectious disease with 5 other interns during hack day event	
K.R. Komarek	
<i>Engineering Intern</i>	
<ul style="list-style-type: none">Wrote C# application to extend Autodesk Vault data management client by extracting title block data from CAD file with open-source LibreDWG libraryUpdated relevant file properties in server for 2000+ legacy machine components, saving thousands of dollars in consultant feesReverse-engineered legacy machine components with Autodesk Inventor for presentation to potential clients, resulting in at least one saleBuilt Excel utilities to graphically represent data from Epicor ERP system for use in annual vendor delivery reportModified unfinished briquet volume calculator in Excel VBA for use by sales personnel	

LEADERSHIP AND ACTIVITIES

Nanoscale Manufacturing Node https://nanohub.org/resources/gsaimage/about	October 2018 – January 2020
<i>Software Developer</i>	<i>Urbana, IL</i>
<ul style="list-style-type: none">Engineered Python graphene image processing application with PyQt5 GUI framework currently used in North America, South America, Europe, India, China, and AustraliaCited in American Chemical Society PublicationAdded “paintbrush” functionality requested by undergraduate students using pyqtgraph and numpy to allow users to manually “color” graphene substrate with mouseEnhanced ability to import and export images by adding different options for file extensionsCoordinated efforts with senior developers with ZenHub to raise and resolve QA issues	

PUBLICATIONS

Crowd-Sourced Data and Analysis Tools for Advancing the Chemical Vapor Deposition of Graphene: Implications for Manufacturing.

<https://doi.org/10.1021/acsanm.0c02018>

Publication: American Chemical Society

Author: Joshua Schiller, et. al.