

# Thomas James L. Francis

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## Past Work Experience

- Jan. 25<sup>th</sup> 2021 to Current: Software Engineering Student (Web Dev Specialization) at Holberton New Haven
- Nov 11<sup>th</sup> to Dec 8<sup>th</sup> 2020: **Stock Trading Bot** Project: Built a stock trading bot that can run multiple algorithms simultaneously: Skills: C#, async, .NET, Alpaca Markets API, SQLite, Selenium
- Nov 3<sup>rd</sup> to Nov 9<sup>th</sup>: **Simple Lead Generator** Project: Built a GUI that scrapes the web for contact info with business names specified from any excel sheet. Skills: Python, PySimpleGUI, xlwings, Selenium
- Sept 15<sup>th</sup>, 2019 to Oct 16<sup>th</sup>, 2020: **MHK**, Madison, full-time, annual salary, **Application Support Analyst**
  - Main Job: Wrote SQL scripts to implement custom app configurations for clients
    - Oracle database, MarketProminence, InstallShield, teamwork, communication, Jira
  - Unique Contributions: Wrote and distributed python scripts to automate work
    - Automated bug reports and developed new Bug test processes for their new Web-based app
    - Produced the company's software installation with no prior experience nor help
- April 15<sup>th</sup> to May 29<sup>th</sup>, 2019: **BYK**, Wallingford, full-time, **Level B Quality Control Chemist**
  - Main Job: Ran time-dependent measurement tasks utilizing various scientific instruments
  - Unique Contributions: Worked on special MS Access database projects for QC methods organization
- March 4<sup>th</sup> to April 12<sup>th</sup>, 2019: **Henkel**, Sun Products, Trumbull, Joule Inc. Hiring Agency
  - Main Job: Created detergent batches and conduct stability testing of samples
  - Unique Contribution: Created an MS Access database to replace existing Excel tracking systems
- Sept, 2018: **Duracell**, Bethel through Panther Group Hiring Agency
  - **Temporary position** loading batteries for Lab Request battery testing
  - Excel spreadsheet organization/file cleaning using basic coding (Python, xlwings, VBA)
- May-August 2017: **KX Technologies**, West Haven, **Intern**
  - Maintained water quality of filter media test stations
  - Researched key technology gaps in the utilization of nanomaterials for water filtration.

## Education

- **University of Connecticut**, Storrs, CT: Roland Award for an Outstanding Senior Thesis (1 of 2 recipients from UConn Chem. Department); ACS accredited B.S. in Chemistry (May, 2018), GPA: 3.3, UConn Honors Program, UConn STEM Scholar, **New Haven Promise Scholar**
- **Hill Regional Career** high school: Honors Diploma, weighted GPA: 4.49
- Self-taught programmer (~2 years).

## Skills & Activities

- Languages: Intermediate Spanish, Latin, basic Japanese
- Lab skills: *graphene oxide composite synthesis, microanalysis, FT-IR, ATR, Raman, UV-VIS, ICPMS, spectroscopy, basic machine shop skills, specialized knowledge of nanomaterials*
  - Honors Senior Thesis: Fractionated Graphene Oxide Composite Synthesis and Graphene Oxide membranes intercalated with Fe(OH)<sub>3</sub>
  - Co-author of: Exploring Graphene Oxide through Stable Emulsion Systems

## Leadership, Accomplishments, and Entrepreneurship

- Bicycled from New Haven, CT to Portland, ME (~300 miles)
- Co-founder of *idex.world*, a website whose purpose is to encourage real life interaction
- Created an education framework with the mission of a U.S. education system that works for everyone

## References

Jason Smith: Business Relations Manager for MHK, CT, [jsmith@mhk.com](mailto:jsmith@mhk.com), Cell Number: (360) 223-1928

Nick Zappone: QC Manager for BYK, USA, Cell Number: (860)-681-8123