



JI YEOW LAW, M.S., EIT

AGRICULTURAL / CIVIL (ENVIRONMENTAL) ENGINEER

AREAS OF INTEREST

- Water resources management
- Water quality monitoring
- Water/Wastewater treatment
- Hydrology and hydraulic modeling
- Engineering cost analysis
- Big data management

SUMMARY

- Motivated environmental engineer at Iowa State University with 5+ years of contribution in environmental monitoring and remediation
- Extensive critical thinking (R&D) and problem-solving (consulting) experience serving government, non-profit, and private clients
- Collaborative team player/leader with a proven record in delivering solutions as a team and partnering with peers across organization
- Passionate to make impacts in the communities by providing, maintaining, and restoring clean water supply and environment
- Working towards Professional Engineer License in 2022

EXPERIENCE / ACHIEVEMENTS

Iowa State University Engineer II Engineer I

Ames, Iowa

Jan 2022 – present

March 2018 – Dec 2021

- Provide consulting services to address environmental issues using practical, cost-effective approaches
 - ❖ Collect water quantity/quality and topographic data
 - ❖ Model pollutant transport to calculate waste load allocations (TMDLs)
- Develop and demonstrate innovative water management/remediation technologies to improve performance and reduce cost
 - ❖ Prepare research proposals for funding to execute ideas and deliver results
 - ❖ Collaborate with multi-disciplinary peers to address higher-level issues
- Install, maintain, and operate water monitoring stations and sensors
- Prepare work plans and SOPs to ensure high quality and consistent work
- Automate data management and analysis to improve efficiency
- Conduct engineering cost analysis to examine and improve cost-efficiency
- Develop watershed management plans, reports, and refereed articles
- Support OSHA compliance training to ensure safe work environments
- Manage and forecast expenses to track and allocate project resources
- Mentor and train new employees for career progression

Iowa Soybean Association Research Analyst Intern

Ankeny, Iowa

Feb 2018 – March 2018

- Used H&H models to estimate nitrogen loading and reduction across Iowa
 - ❖ Computed surface/subsurface nitrogen loads in tile-drained landscapes
 - ❖ Computed flows and nitrogen load reductions of bioreactors

Iowa State University Graduate Research Assistant

Ames, Iowa

Sept 2015 – Dec 2017

- Developed new design of bioreactors with electrical stimulation, and successfully demonstrated higher denitrification rates
 - ❖ Delivered engineering drawing, cost analysis, and refereed articles

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👤 English (primary), Chinese, Malay

EDUCATION / CERTIFICATION

Iowa State University

- Master of Science, 2015 – 2017
GPA 3.92
 - ❖ Co-major: Agricultural & Biosystems Engineering
(Land and Water Resources focus)
 - ❖ Co-major: Civil Engineering
(Environmental Engineering focus)
- Bachelor of Science, 2013 – 2016
GPA 3.76
 - ❖ Major: Agricultural Engineering
(Land and Water Resources focus)
 - ❖ Minor: Agribusiness

National Council of Examiners for Engineering and Surveying

- Engineer in Training, 2016

EXPERTISE

- Project Management
- Field Survey and Instrumentation
- Data Management and Analysis
- Technical Writing
- Client and Public Engagement
- Environmental Policies

SKILLS AND SOFTWARE

- Word, Excel, PowerPoint, Project
- VBA, Python
- Hydrus 1-D, BATHTUB, WEPP, DRAINMOD
- ArcGIS, AutoCAD, SolidWorks, Autodesk
- Trimble RTK GPS, GNSS, Transit Level
- JMP, SAS, OriginLab