



# Isaac A.B. Yep

Maker of things,  
lover of people.

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## Programming

- C/C++
- Python
- MatLab
- HTML/PHP/CSS
- JavaScript
- C#
- SQL

## Embedded

- Arduino
- Raspberry Pi
- Particle Photon
- Sensor Integration Experience

## CAD Tools

- AutoCAD
- SolidWorks
- Comsol
- ANSYS

## Education

- Awarded 2016 **B.S. Mechanical Engineering** U.A.A.  
Minor in Mathematics, Minor in Physics, Research in vertical axis wind turbine development with field work.
- Awarded 2019 **B.S.I.D Mathematical Physics** U.A.A. / P.S.U.  
Research in plasma physics with presentation at APS convention, Research in climate change / atmospheric physics sensors development and testing with pending research paper publication.
- Currently Studying **M.S. Computer Science** P.S.U.  
Currently an MCECS IT volunteer and a part of the internal web development team.

## Experience

- Certification **FE Exam** Mechanical Engineering  
Have passed the Fundamentals of Engineering (FE) Mechanical Examination.
- Energy Systems **Field Work Researcher** Mechanical Engineering  
Worked on vertical-axis wind R&D site for the University of Alaska Anchorage department of mechanical engineering. Flown to remote Alaskan villages to work on design, electrical and mechanical components of wind energy systems and small grid mechanics in field several times under direct supervision of Dr. Robert Wills (P.E.).
- Embedded Systems **Sensors Developer** Computer Systems Engineering, Data Science  
Currently designing and testing atmospheric sensors and experimental procedures towards pending research paper for climate change research with the Portland State University physics department, under Dr. Andrew Rice (see references). Also in charge of Data collection and writing analysis scripts.
- Plasma Apparatus **Plasma Physics Researcher** Academic Team Research  
Worked with a university plasma physics research team on a plasma confinement vessel, assisting with structural design and research in developing a microwave plasma interferometry circuit and diagnostic instrument. Presented a poster on helicon plasma confinement with my team at the APS plasma physics conference.
- Adjunct Professorship **Intro Math Instructor** STEM Education  
Worked as an adjunct professor of mathematics at the University of Alaska Anchorage.
- Tutoring/Management **Lead Math/Science Tutor** STEM Education  
Acted as the supervising math and science tutor of the University Learning Commons at UAA for 2 years, and worked in that math/science tutoring lab for 4 years. I'm currently contracted by Grade Potential, Varsity Tutors, Tutor Doctor and BBEDC as a STEM tutor for distance clients on an online platform.
- Systems Programming **Workshop Instructor** STEM Education  
Currently Instruct Introductory Arduino labs/workshops for the PSU student physics society.
- IT Volunteer **Computer Action Team** Information Technology  
Know by the acronym 'The CAT', a student and faculty-led organization that gives members 4-6 hours of IT training per week throughout each term in exchange for support desk shifts, which are also beneficial. Experience in shell scripting, network infrastructure, and system administrator responsibilities. Also a part of a team within the CAT that directly maintains the school websites and develops it's internal tools.
- Trade Work **Carpenter / Construction Worker** Technical/Manual labor  
Freelance commission carpenter/contractor, have been employed seasonally by a flooring company, lumber supplier, road construction company, and as a private oil field roustabout, also with welding, drywall, and masonry experience. Primary focus was carpentry, working trades to pay for engineering school. Currently fork lift certified.

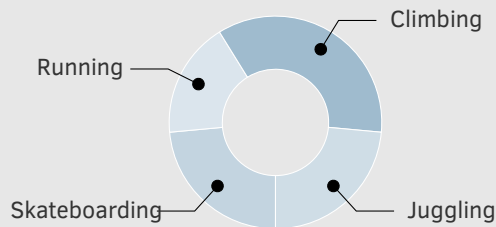
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## Personal



and I'm a professional kid!



## Memberships



**BRILLIANT**

*Brilliant.org*  
Daily -  
Math/Comp-Sci  
Lessons



*CodeCademy.com*  
Monthly -  
New Language  
Introduction



*Duolingo.com*  
Daily -  
Japanese  
Lessons



**treehouse**

*teamtreehouse.com*  
Weekly -  
Dev-Ops/Comp-  
Sci Lessons

## Awards

2011 – 2015 Recipient of the Alaska Performance Scholarship  
2015 Recipient of the Society of Petroleum Engineers Scholarship  
2016 Recipient of the Dr. Alex Hills Engineering and Civic Engagement Award

## About Me

Hello, ようこそ

I love making things, I love people, and I want to be a person I would laugh and get along with for 45-50 hours a week. That's the heart of my pitch. I grew up in Alaska and pursued a B.S. in mechanical engineering, and worked in vertical-axis wind turbine and small grid development until my state found itself in a recession. I got a job teaching math at my university and pursued a physics degree while managing the science tutoring lab and working seasonally as a carpenter. As job market recovery was slow, I moved here to the PNW to finish my physics degree and get a job, but as I got into climate change research as a sensors developer for my physics capstone, our began work on a scientific journal publication, and I found a passion for computer science. I love it here in the PNW, and would love to continue to grow as an engineer and scientist with you and your company. I've worked various construction trades for several years and have finished two degrees, so I'm no stranger to crunch time. I'm currently pursuing my masters in Computer Science at Portland State University, as well as working for the student-led IT department and a back-end volunteer development team. Currently on a 700+ day streak of Japanese self-study! I would love to be a long-term player on your team or problem solvers!

どうもありがとう！

## References

Letters of recommendation can be provided upon request:

Cameron Nay Former Supervisor; UAA Tutoring / Student services

Dr. Andrew Rice Current Research Mentor; PSU Atmospheric Physics Lab

Dr. Aslam Khalil Former Professor; PSU Physics

Dr. Nathaniel Hicks Former Research Mentor; UAA Plasma Physics Lab

Dr. Nicolae Lobontiu Former Professor; UAA Mechanical Engineering

Dr. Katheryn Rawlins Former Professor; UAA Physics

Dr. Jifeng Peng Former Work/Research Mentor; UAA Mechanical Engineering

Megan Ossiander-Gobeille Former Teaching Colleague; UAA CPDS

James Rush Former Welding Instructor; UAA Machine Shop

JP Lavoie Former Manager; Crosscut Hardwoods