

Brian K Bates

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OBJECTIVE

To leverage my mechanical engineering education and four years of experience designing and developing electronic control systems into a controls internship or cooperative education starting Summer 2017.

EDUCATION

Iowa State University, Ames, IA

Bachelor of Science, Mechanical Engineering

Graduation: May 2019

Cumulative GPA: 3.31

Des Moines Area Community College, Ankeny, IA

Associate Degree, Pre-Engineering

Graduated with Honors: May 2016

Cumulative GPA: 3.41

CAREER EXPERIENCE

Iowa Aquaponics, LLC, Huxley, IA - *Sole Proprietor* (2011 - 2015)

- Design and fabricate data acquisition and control systems using DC circuit theory and SMD reflow
- Network all control systems to a scalable cloud application providing customers with a powerful and secure method of managing their assets from anywhere using real-time analytics

Sukra-Helitek, Ames, IA - *Programmer* (2010)

- Transition of computational fluid dynamics software to GNU compiler, verifying results against previous client projects ensuring accuracy and customer confidence

United Parcel Service, Des Moines, IA - *Supervisor* (2006 - 2009)

- Shift supervisor managing 30 employees in the safe and accurate unloading of trucks to meet or exceed company production quotas and safety standards

ACTIVITIES & LEADERSHIP

Iowa State University

- American Institute of Aeronautics and Astronautics Student Chapter - *IT Executive Chair*
- Engineering Career Fair - *Head Ambassador*

Des Moines Area Community College

- NASA Aerospace Scholars Program

SKILLS

- Programming languages: MATLAB, Python, Java
- Microcontrollers, Basic Electronics, Eagle CAD, SMD PCB Fabrication, Benchtop Testing
- SolidWorks, 3D Printing, Mechanical Power Tools
- Web development: Google Cloud Platform, HTML5, CSS3, jQuery, JavaScript, UI Design, Mobile/RWD