

William I. Gibbs IV

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SUMMARY

- Mechanical Engineer with extensive experience in project management, product design, robotics, and industrial automation
- Strong hand-sketching, concept planning, 2D and 3D CAD skills with extensive portfolio in multiple design realms
- Mechanically inclined, hands-on, and knowledgeable in a broad array of fabrication and manufacturing processes and techniques
- Independent and creative, outgoing and enterprising; oriented toward efficiency and quality; self-guided and quick to learn

EDUCATION

Seattle University, Seattle, WA: **B.S. in Mechanical Engineering, 2008**

- Coursework in materials science, thermodynamics, electrical systems, control systems, and data acquisition
- President of ASME Human Powered Vehicle Club and member of Engineers Without Borders

PRIMARY WORK EXPERIENCE

Independent Consultant Seattle, WA, USA: APR 2016 – present. Performing independent product design/engineering/prototyping for startups.

Cascadia Automation Solutions Auburn, WA, USA: OCT 2015 – APR 2016: **Interim Engineering Program Director**

corvus & columba LLC Seattle, WA: NOV 2011 – OCT 2015: **Director of Technology & Design / Owner / Founder**
(acquired by Cascadia Automation Solutions)

- Consulted directly with customers to plan and engineer systems and components used in custom automation equipment
- Set overarching design trajectory for individual projects and the company
- Remained abreast of industrial and technological developments, assessing integration and application prospects

Electroimpact, INC Mukilteo, WA: FEB 2011 – DEC 2011: **Mechanical, Controls Engineer**

- Planned, built, commissioned, and supported large Kuka robotic systems as applied to aircraft assembly automation, globally
- Administered Siemens CNC- and PLC-based industrial control systems
- Designed, validated, and procured mechanical systems and components relating to commercial aircraft production

DNV Renewables USA, INC Seattle, WA: NOV 2008 – AUG 2010: **Wind Turbine Test Engineer**

- Planned, installed, administered, and reported on power performance tests of utility-scale (megawatt+) wind turbines, globally
- Generated and interpreted electrical schematics to design, build, and support sensor and communication networks
- Used SolidWorks to design and validate fixtures for meteorological and electrical testing sensors

OTHER PROJECTS & EXPERIENCE

Seattle University Seattle, WA: 2007-2008

Machinist Assistant (Work-Study Program)

- Assisted shop director with student and faculty projects
- Design and fabrication of shop fixtures, tools, and devices

ATEC/Power Engineers Pocatello, ID: 2004-2005

Equipment Operator, CAD Operator (Internship)

- Quoting, programming, and operating Flow waterjet
- Reverse-engineering in SolidWorks of existing parts

Digital and Technical Art Directorship (various locations) 2013 - present:

Helping artists solve complex design and engineering problems encountered while creating new media, technical, digital, and interactive artworks, both large- and small-scale. Named as Technical Director for works by Susie J. Lee, Allison Kudla, and Scott Chico Raskey.

Ventur, Inc Seattle, WA - 2013-present:

Designed, prototyped, and currently produce and sell a tactile, interactive enclosure for PCB-based microdevices like Arduino and Raspberry Pi, along with associated accessories to help students, hobbyists, and professionals.

SKILLS

on the computer:

SolidWorks expert (10+ years), including PDM and analysis tools (thermal, mechanical), PhotoView, KeyShot.
CNC/PLC/μC programming: MasterCAM, STL/ladder logic, Arduino/Processing.

in the shop:

Rapid-prototyping (SLS, SLA, FDM) and conventional model-making, CNC/conventional mill and lathe, hydroabrasive cutting, sheet metal forming, welding, soldering and electrical/electronics development.

Specifying, contracting/requisitioning, and practicing all of the above processes to support production.