JoshUA (Valentine/VAL) Ackerman

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| Objective |  |
| Graduated with a bachelor of science in Mechanical Engineering: seeking a position as a Design Engineer in the field of Creative Design. |  |
| Education |  |
| Case Western Reserve University | May 2023 |
| * Major: Mechanical Engineering * Related Course Work: Computer Assisted Design, Strength of Materials, Dynamics, Evolutionary Anatomy, Musculoskeletal Biomechanics, Design and Manufacturing, and Systems/Control (more detail provided under “Relevant Course Work & Specific Skills”) |  |
| Skills & Abilities |  |
| SOFTWARE |  |
| * Proficient in Solidworks (CSWA) and familiar with both Fusion 360 and Onshape * Experienced in MasterCAM: CNC Path Programming * Experienced in Microsoft Office Suite: Using excel to perform linear approximations and effectively processing large amounts of data. * Experience coding in Matlab and Java * Experience with Photoshop, Inkscape, HTML, and familiar with CSS   RELEVANT COURSE WORK & SPECIFIC SKILLS |  |
| * Engineering Design and Fabrication [CAD, Machining (additive and subtractive), Conceptual Design, Circuits, Thermal and Fluid Mechanics, Senior Design Project Courses] * Mathematical Modeling of Simple and Complicated Systems [Physics, Statics, Dynamics, Calculus, Differential Equations, Control Theory] * Analysis and Fabrication of Biological Systems, their Structures, and Properties [Musculoskeletal Biomechanics (Muscles as Actuators and Prosthetic/Implant Design), Evolutionary Anatomy] * Design and Fabrication of Compliant Mechanical Components [Mechanics and Control of Compliant Robotics (Design of compliant grippers as well as the complex molds necessary to cast them)] |  |
| CAMPUS ACTIVITIES AND LEADERSHIP |  |
| Assistant Director and Social Media Manager  *CWRU Film Society*   * Assisting with director’s duties where able and responsible for upkeep of social media and communication with the student body. | 2020-2022 |
| Experience |  |
| Research/Design  CWRU Biologically Inspired Robotics Lab | 8/29/2022-5/11/2023 |
| * Responsibilities include the analysis of animal morphology and motion to effectively design a biomimetic robotic aardvark forelimb  Links |  |

Portfolio Webpage: https://val-a4.github.io./