Tanner Hoelzel

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EDUCATION

Binghamton University, State University of New York   Expected May 2019

    Bachelor of Science in Computer Science, Watson School of Engineering
    Bachelor of Science in Mathematical Sciences, Harpur College of Arts and Sciences
    Cumulative GPA: **3.00/4.00**

TECHNICAL SKILLS

- Languages: C++, C, C#, Java, JavaScript, HTML
- Software: OS X, Windows 8, Ubuntu, Git, Visual Studio, Unity, Photoshop CC
- GitHub: tannerhoelzel.com/github

RELEVANT EXPERIENCE

XVIVO Scientific Animation, Wethersfield CT   May 2016 - August 2016

    Intern in Virtual Reality and 3D Design
- Led technical development of touch screen application for a client alongside lead animator
- Replicated a shipped VR scene to prove benefit of in-house development over subcontracting
- Established library of VR projects for the Samsung Gear using C# with Unity
- Sent daily time management reports to supervisor that became required of all interns

Freshman Research Immersion, Binghamton University   September 2015 - Present

    American Sign Language Recognition Researcher
- Optimize an existing C++ random regression forest for classification on novel hand pose database
- Test and develop novel features with WEKA to achieve maximum classification accuracy on ASL alphabet
- Collect hand pose data from team members and fluent speakers using Leap Motion and Xbox Kinect
- Design research poster with 7 team members for presentation on campus in December

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LEADERSHIP

Residential Life, Binghamton University   August 2016 - Present

    Resident Assistant for STEAM Learning Community
- Lead outings to tech hubs including Cornell's CESR, Triple Cities Makerspace, and 3D printing center
- Host pre-midterm tutoring sessions for residents in linear algebra, calculus and number systems
- Develop long term projects with resident faculty advisor including STEAM website creation
- Collaborate with grad students to make the punitive approach to student misconduct more growth-oriented

Mountainview College Council, Vestal NY   September 2015 - May 2016

    Windham Hall Vice President of Finance
- Appropriated Hall budget of $1,100 for more than 7 hall events and 6 hall meetings each semester
- Implemented a long term recycling fundraiser and arranged weekly pickups with a local redemption center
- Planned expansion of recycling fundraiser to 4 residence halls with area custodial manager
- Drafted financial bylaws using experience with council constitution

    Rules Committee Chairperson
- Led 6 committee members in complete overhaul of 20 page student government constitution
- Explained constitutional revisions at weekly council meetings to executive board and general body
- Oversaw weekly committee meetings to direct the subject matter of revisions

Theta Tau, Nu Gamma Chapter   March 2016 - Present
- Co-host professional development workshops to teach HTML based web design to fraternity members
- Help members set up online resumes and personal web pages at thetataubing.com

ACM Binghamton University Chapter, Binghamton University   September 2015 - Present
- Represent Binghamton University as a 2016 International Collegiate Programming Competition competitor