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

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TECHNICAL SKILLS

- Languages: C, C++, C#, Java
- Software: OS X, Windows 8, Ubuntu, Git, Visual Studio, Unity, Photoshop

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RELEVANT EXPERIENCE

XVIVO Scientific Animation, Wethersfield CT   May 2016 - August 2016
    Programming and Virtual Reality Intern
- Established library of VR projects for the Samsung Gear using C# with Unity
- Replicated professionally contracted VR experience depicting vaccination at the cellular level
- Led technical development of professional touch screen experience for pharmaceutical client

Freshman Research Immersion, Binghamton University   September 2015 - Present
    American Sign Language Pose Recognition Researcher
- Adapt RFLib (a C++ library for random forest classifiers) to hand pose database
- Test novel features using WEKA to achieve maximum classification accuracy over ASL alphabet
- Collect hand pose data from team and fluent ASL speakers using Leap Motion and Xbox Kinect
- Wrote research proposal complete with methods, results, discussions, and conclusions sections

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LEADERSHIP

Residential Life, Binghamton University   August 2016 - Present
    Resident Assistant for STEAM Learning Community
- Develop projects based on STEM and the arts to expose freshman residents to extracurricular interests and collaboration

    Resident Assistant in Hunter Hall
- Encourage residents to realize their academic and social potential through one-on-one interactions
- Collaborate with professional staff members to facilitate student discussions about conflict resolution

Mountainview College Council, Binghamton University   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
- Fundraised over $50 each semester by pioneering a long-term can-redemption fundraiser

    Rules Committee Chairperson
- Led 6 committee members in complete revisions of 20 page MCC constitution
- Explained committee updates at weekly Council meeting for Executive Board and body of 40 residents

    Budget Committee Member
- Adapted can-redemption fundraiser from Windham Hall to Mountainview College
- Drafted Financial Bylaws using experience with Council Constitution

ACM Binghamton University Chapter, Binghamton University   September 2015 - Present
- Collaborate to solve coding challenges at weekly workshops in preparation for International Collegiate Programming Competition
- Placed 33 out of approx. 140 Binghamton students of all class ranks at September ACM competition