



# NHSSD STEAM WING WISH LIST

## HIGH-SPEED COMPUTERS

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The foundational element of our STEAM Wing will be a high-speed computer lab equipped with 22 devices, which will facilitate Adobe software for the multimedia production, AutoDesk, a computer-aided draft and design (CADD) software for engineering design projects, coding software to program FPV drones, virtual reality sequences, and eSports competitive gaming.

**High-Speed Computers - \$85,000**

## MEDIA PRODUCTION STUDIO

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In a professional broadcast studio, students will engage in storytelling, master industry-grade production and editing tools, and explore concepts of media literacy. With a team of equipped students, we plan to create a student-run production team to facilitate recordings of school concerts and events—an opportunity to highlight and celebrate student accomplishments, share their work with the community, and chronicle important events for our District.

**Media Production Studio - \$200,000**

## FIRST PERSON VIEW DRONES

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A set of 10 First Person Viewer quadcopters and accompanying obstacles will support studies in coding and robotics. Students will learn to construct and program a custom drone, while exploring drone flight concepts at a 2:1 student to drone ratio.

**FPV Drones - \$16,000**

## OCULUS VIRTUAL REALITY SYSTEMS

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Oculus VR systems will support coding instruction and position students to code their own virtual environments. A classroom set of 10 VR headsets will also be used for virtual prototyping and for immersive studies in design and function.

### **Oculus Virtual Reality Systems - \$10,000**

## CNC ROUTER AND PLASMA CUTTER

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Used in all aspects of modern manufacturing, a Computer Numerical Control (CNC) router and an accompanying plasma cutter will enable students to fabricate and manufacture their designs using various materials, including wood, metals, and plastics.

### **CNC Router and Plasma Cutter - \$15,000**

## ESPORTS GAMING CONSOLES

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Translating what is often an isolated recreational activity into a cooperative classroom environment, eSports enhance students' communication and leadership skills and help foster social engagement and connectivity. Students will apply data analysis and strategy as they compete and enhance their confidence with technology. Research also suggests that gaming can improve cognitive function, specifically visual attention, short-term memory, and reaction time.

### **Gaming Consoles - \$5,000**

## ROBOTICS

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The new lab space includes a robotics arena to facilitate classwork in robotics and our VEX robotics competition teams. Equipping our robotics space with a band saw and drill press will give students the opportunity to see the engineering design process from start to finish. Students will learn to design their robots using CAD software and have the opportunity to evaluate their design choices as they assess the completed project.

### **Fabrication Station - \$5,000**

For more information, please contact:

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