

JETS/AbilityOne National Engineering Design Challenge
Students engineering success for people with disabilities.

JETS Presentation

RE&T-PSG ANNUAL MEETING



JETS
Explore... Assess... Experience Engineering!
www.jets.org

AbilityOne
PROGRAM ★
www.abilityone.org

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About the Program

Students experience engineering and impact their community!

- The NEDC is an annual engineering design competition for students in grades 9–12. Teams of students design and build an assistive technology device to help a person with a disability.
- NEDC is a cross-curricular and service learning program that:
 - educates young people about careers in engineering,
 - increases disability awareness,
 - promotes community involvement,
 - inspires a spirit of engagement and a willingness to help others.
- NEDC teams can win prizes, including a trip to Washington, DC, and cash for their schools.
- The NEDC is made possible by the AbilityOne Program and coordinated by JETS, Inc.

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To compete, teams register online with JETS at www.jets.org/nedc beginning in September 2009. Teams work with their coach at their school and submit all requirements online. The five finalist teams will receive a trip to Washington, DC. The competition is in three rounds:

- Round I - Deadline: December 9, 2009**
The Project: All teams will research, design, construct and report on their device.
Part I: Internet Scavenger Hunt
Part II: Final Report on Device Design, Construction & Testing
- Round II - January 13, 2010**
Virtual Semi-Finals – Round I winners will present an online video presentation of their device.
- Round III - February 25, 2010**
National Finals – The top five teams will be selected to win a trip to Washington, DC to present their device before an audience at the finals event. The winners will receive cash for their school!

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2009 Winners

Best Overall Design: Grand Rapids Catholic Central - Handy Typer

A device designed specifically for a teacher at their school who lost his hand in an accident. This device works as a prosthetic with two protruding "fingers" that can type on a standard keyboard.



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2009 Winners

Outstanding Engineering Design — Bishop Kelly High School, Boise, ID: Syringe Holding and Guidance System (SHAGS)

Outstanding Assistive Technology Design — Commack High School, Commack, NY: New Office Workspace (NOW)





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Finalist — St. Ursula Academy, Toledo, OH: The Lift-A-Tray

Finalist — Wethersfield High School, Wethersfield, CT: The Easy Access Transport System (EATS)




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What can you do?

- Reach out to students in your community and serve as a professional mentor to NEDC teams.
- Serve as a judge on the NEDC design review board.
- Spread the word locally! Start an NEDC team at schools in your area.
- Help us create outreach packet.

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Judging

- Judges are needed to evaluate submissions for the competition.
- All judging is online and requires a 5–10 hour commitment for each round.
- Round I judging will be online December 9–15, 2009.
- Round II judging will be online January 13–15, 2010.
- Interested in judging? Please complete an application

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Outreach

- Reach out to local high schools in your area.
- Start and coach a team!
- Offer to mentor a team!
- Help a team find an individual in their community.

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Help us create an *Outreach Packet*

- Help JETS create a targeted presentation to give to RESNA members to take to schools in their community.
- Packet will include the presentation, print materials and instructions.
- Sign up now!

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