

# ESPC 2012 - Charlottetown (Ile-du-Prince-Édouard)



## Alexander Drover

### Pro.Tech.Neck: The Future of Hockey Neck Guards

**Défi:** Innovation

**Catégorie:** Junior

**Région:** Frontenac, Lennox & Addington

**Ville:** Kingston, ON

**École:** Calvin Park P.S.

**Sommaire:** Hockey neck guards do not protect against the impact of a puck. Our project focused on creating and testing neck guard prototypes designed to reduce the energy transmission of a puck. Our designs incorporated realistic engineered materials. Golf impact tape and clay moulds were used in testing. Results showed that our Pro.Tech.Neck guard provided better protection than anything commercially available.

### Biographie

I am from Kingston, Ontario. I'm twelve years old and in grade seven at the Challenge program at Calvin Park Public School. I really enjoy sports, I played on the school soccer, volleyball, basketball and ultimate Frisbee teams. I also competed in the cross-country running races. I am the captain of my competitive soccer and hockey teams. I plan on going into engineering or medicine when I am older. My inspiration for this project came from watching my partner's younger brother play hockey. He is on a team that plays up which means they are playing against kids who are two to three years older than him. These kids are much bigger and stronger so I thought there would be some safety concerns with this. We were think, what if one of the big kids took a slap-shot and hit him or one of his teammates in a vulnerable area of their body? That would cause some serious damage. Something I would tell someone who was doing a project is to manage your time wisely. I think we did this w=quite well and it benefited us a lot with not being rushed in the last stages of our project.

### Prix

### Valeur

Prix de l'SCIA de l'innovation en génie - Junior	500,00 \$
Commanditaire: La Société canadienne des ingénieurs aînés	
Prix d'excellence - Junior - Médaille d'argent	700,00 \$
Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University	2 000,00 \$
Médaille d'argent - Bourse d'admission de 2 000 \$	
Commanditaire: Université Western	
<b>Total</b>	<b>3 200,00 \$</b>