

Lighting and Renewable Energy Design Project
Mechanical Engineering Quartet Wins 2010 Harry Pearce Prize



From left to right: *Future Lighting Solutions* LRC Manager Michael Parada and Technical Marketing Engineer Osama Mannan, McGill Mechanical Engineering students Kyran Griffiths, Michael Simla and James Medvescek, and *Future Lighting Solutions* Technical Marketing Manager Muhamad Moussa. Missing is Mechanical Engineering student Edouard Trudeau.

platform; a LED (light-emitting diode) street light designed to meet urban road requirements in China; an eco-city review of technology for sustainable living and an energy audit of *Future Electronics'* offices in Pointe-Claire, Quebec.

In the process, Mechanical Engineering students who worked on the underground train station illumination won their department's annual Harry Pearce Prize for using 48 neutral white LUXEON® Rebel LEDs to achieve their objective.

Under the terms of the collaborative venture two *Future Electronics* divisions — *Future Lighting Solutions* (a provider of LED lighting components and solution support) and *Future Energy Solutions* (a new sister company dedicated to helping reduce global energy consumption) — provided the McGill students with LEDs and other system components; training in solid state lighting technology; access to proprietary engineering software; and engineering support, including optical and thermal simulations.

“This partnership gave engineering students the opportunity to develop real-world applications, work alongside a team of experts and see the various challenges involved,” said Engineering Faculty Associate Dean (Academic) James J. Clark. “Participating students said it was an extraordinarily valuable experience to interact with *Future's* engineers and executives.”

“The collaboration is part of our commitment to providing hands-on experience to the engineers of tomorrow,” added Jamie Singerman, *Future Lighting Solutions'* worldwide Corporate Vice President. “It also strengthens our relationship with McGill and connects us with talented students who may be following a career path in solid state lighting.”

Senior year students from the Faculty of Engineering, the Desautels Faculty of Management and the Faculty of Law have teamed up with *Future Electronics*, the third largest electronic component distributor in the world, on a series of industrial projects involving lighting and renewable energy.

The two-semester, cross-disciplinary pilot initiative was supported by a grant from the Provost's Office. Different teams, including 41 engineering students, developed sustainable lighting for an underground train