

# Nikolay Vladimirov

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## EDUCATION

**University of Pennsylvania School of Engineering and Applied Sciences** (Graduating May 2014)  
Candidate for a MSE in Integrated Product Design and a BSE in Mechanical Engineering

## EXPERIENCE

**Robockey** – MEAM 510 at the University of Pennsylvania (six weeks) **Fall 2011**

- Created two autonomous hockey playing robots on a three person team

**Submarine** - MEAM 501 at the University of Pennsylvania (>100 hours) **Spring 2012**

- A 9-person team led the design and creation of a custom sleek, four-pod submarine

**Titan** - Senior Design at the University of Pennsylvania **Autumn 2012-Spring 2013**

- An ongoing powered upper body exoskeleton developed by four students
- The project is a finalist in the 2013 Cornell Cup and is set to present the project in early May

## WORK HISTORY

**Research Lab Assistant** **August 2011 - May 2012**  
**ModLab at the University of Pennsylvania**

- Perform robotics research on Spideybot, a robot that can swing from the ceiling

**Senior Lab Supervisor** **May 2012 - Present**  
**University of Pennsylvania**

- Train people in how to use the laser cutters and maintain lab equipment
- Create electronic add-on boards for the M2 microcontroller using Eagle
- Operate a \$62 PCB milling machine and 3D printers

**MEAM Teaching Assistant** **January 2012 - Present**  
**University of Pennsylvania**

- Teaching assistant for two machining courses and two mechatronics courses
- Create course and promotional material, hold office hours, and lead labs

**Wharton Innovation Group Consultant** **December 2012-Present**

- Mechanical engineering consultant on teleconferencing office cart project
- Create CAD models, minimize product costs, and conduct patent research

## TECHINICAL SKILLS

- Software:** Adobe Creative Suite CS6, SolidWorks, Matlab, Eagle, and Microsoft Office
- Programming Languages:** Matlab, C, and Java
- Prototyping:** manual and CNC machines (mills and lathes), 3D printing, PCB milling, laser cutting, sanding, painting, and surface finishing

## ACTIVITIES & HOBBIES

- Member of Theta Tau Professional Engineering Fraternity
- PR chair of ASME at the University of Pennsylvania
- Interests:** rock climbing, cycling, computers, photography, photo editing, and movie making