

**JOSEPH VIOLA**  
164 St Pauls Avenue  
Staten Island, NY 10301  
Tel: 718-668-5027  
E-mail: [Joe.E.Viola@gmail.com](mailto:Joe.E.Viola@gmail.com)

---

---

## EDUCATION

---

---

### **The Cooper Union for the Advancement of Science and Art** – (2012-2016)

- Albert Nerken School of Engineering
- Full tuition scholarship recipient
- Mechanical Engineering
- Cumulative GPA – 3.4

---

---

## WORK EXPERIENCE

---

---

### **Viola & Sons Contracting** – (2008-Present)

#### *Laborer*

- Landscape and tend to yards and gardens
- Restore and renovate properties

---

---

## PROJECTS

---

---

### **Speedy Capper** – (2013-Present)

*A device which vortexes, uncaps, and recaps eppendorf tubes*

- Designed and manufactured test tube cap molds
- Used solidworks to design parts and analyze motion
- Prototyped to optimize ease and ergonomics

### **FSAE – Throttle** – (2012 - Present)

*A completely mechanical throttle for a formula style racecar*

- Researched FSAE rules and regulations
- Worked with machinists and optimized manufacturing
- Improved the overall responsiveness of the car

### **Solar Thermoelectrics** – (2011)

*A device which utilized heat energy from sunlight*

- Researched thermocouples as a power source
- Designed a novel collector of solar energy
- Collected and analyzed data in order to compare to solar panels

### **Set Building**

- Designed and built large set pieces
- Communicated with craftsmen and arranged for pieces

---

---

## SKILLS

---

---

### **Crafting**

- Wood crafting – Amateur
- Machining – Amateur

### **Programs**

- Solid Works – Proficient
- CAD – Proficient
- Microsoft Office – Proficient
- Python – Amateur
- C – Amateur

### **Communication**

- Strong writer
- High school and college actor
- Head playwright for student productions

### **Leadership**

- Senior Class President
- Student Leadership Team Member
- SING! leader