

# John Grotke

**Present Address:**

Box S-814  
Stevens Institute of Technology  
Castle Point on Hudson  
Hoboken, NJ 07030

**Permanent Address:**

3105 Woolsey Drive  
Churchville, MD 21028  
jgrotke@stevens.edu  
410-877-5538

**EDUCATION:** Stevens Institute of Technology, Hoboken, NJ  
Bachelor of Engineering in Computer Engineering  
GPA: 3.24, Major GPA: 3.77

**Coursework:** Physical Design of Wireless Communication Systems, Wireless Networking, Wireless System Security, Digital System Design, Microprocessor Systems, Transport Phenomena in Solid State Devices, Circuits and Systems, Data Structures

**SKILLS:**      **Software:** MATLAB 2016, Simulink, SolidWorks 2014, Mathematica 9, Microsoft Office: Excel, Word, PowerPoint, Visio, SharePoint, and Project  
**Languages:** VHDL, C++, Java, HTML, JavaScript, CSS

**WORK EXPERIENCE:** Motorola Solutions, Woodcliff, NJ  
Systems Engineering Co-op 1/2017–8/2017

- Created RF coverage and interference predictions for County and Statewide EMS, Fire Dispatch, and Police wireless communication systems
- Prepared RF link budgets and Telco requirements
- Created high/low-level system diagrams of current and future wireless systems
- Prepared and executed detailed cut-in checklists for 911 dispatch centers to allow for microwave backups to their current equipment
- Assisted lead engineers with post-sale technical support on two-way radios
- Met with customers and attended weekly status meetings for multiple projects

Office of Non-Lethal Defense, Picatinny Arsenal, NJ  
Intern 6/2016–7/2016

- Participated in Radiated Susceptibility/Immunity experimentation on Unmanned Aerial Systems (UAS)
- Tested the effects of radiation in a range of frequencies on commercial drones
- Operated 18 foot GTEM cell, amplifier, signal generator, and spectrum analyzer to conduct experiments on UAS
- Maintained experimentation log to analyze telemetry data

**Hunter Douglas, Pearl River, NY**  
Help Desk Analyst/PC Technician 1/2015–05/2015; 08/2015–12/2015

- Migrated all company computers from Novell to Active Directory
- Developed and managed multiple servers utilizing VMware
- Provided support to users for hardware and software issues
- Built and repaired computers and other electronics
- Created website that contained interactive map of office for new employees

U.S. Citizen  
Available to Work: May 2018