

# Kevin Pickard

Kevin.Pickard@Colorado.edu | 720-314-0492

## EDUCATION

### UNIVERSITY OF COLORADO BOULDER

B.S. MECHANICAL ENGINEERING,  
MINOR IN COMPUTER SCIENCE  
Expected August 2016 | Boulder, CO  
Cumulative GPA: 3.0

## SKILLS

### PROGRAMMING

C/C++ • C# • Java  
Matlab • Mathematica  
LabView •  $\text{\LaTeX}$  • Android  
Web Design • SQL • MVC  
Bootstrap • Ruby/Ruby on Rails

### ENGINEERING DESIGN/TESTING

System and part design • Prototyping  
Machining • SolidWorks • EES  
Arduino/RedBoard • Sensor Deployment

### INFORMATION TECHNOLOGY

Windows • Linux • Mac OSX  
Active Directory • Networking  
Software Package Deployment  
System Monitoring

## COURSEWORK

Engineering Design  
Testing/Data Collection  
Data Analysis  
Statics and Dynamics  
Fluids, Thermodynamics  
Heat Transfer  
Materials  
Manufacturing  
Systems Analysis  
Computational Methods  
Circuits and Electronics  
Numerical Analysis  
Operating Systems  
Computer Systems  
Data Structures  
Mobile Application Development and Security  
Unix Tools and Scripting  
Computer Graphics

## LINKS

Github:// [kevinjpickard](#)  
LinkedIn:// [kevinjpickard](#)  
Website:// [www.kevinjpickard.com](#)

## EXPERIENCE

### INTEGRATED TEACHING AND LEARNING LABORATORY AND PROGRAM | LAB ADMINISTRATOR

August 2013 - Present | Boulder, CO

- Investigated and implemented robust, flexible, and efficient solutions for software package deployments
- Developed upgrade and maintenance packages for deployment on network servers and clients
- Configured network assets, including DNS and DHCP services, Group Policy settings, and network OUs (Active Directory)
- Worked effectively in a high workload, high distraction environment both independently and in teams
- Investigated problems and independently found and implemented solutions to domain issues

### DESIGN BUILD FLY TEAM, UNIVERSITY OF COLORADO

BOULDER | PROJECT MANAGER, SYSTEMS ENGINEER,  
MISSIONS/OPTIMIZATIONS ENGINEER, FINANCIAL OFFICER, ADVISER  
August 2012 - May 2016 | Boulder, CO

- Effectively managed and organized a large team of engineers (30 - 40 Engineers)
- Successfully applied for and received several grants and sponsorships
- Prepared detailed, professional design reports describing the entire engineering process, from the conceptual design through the prototyping, testing, and final building phases
- Created and delivered regular presentations in front of large audiences both alone and in teams
- Designed and executed effective testing procedures for many aspects of a complex system as well as analysis of the collected data
- Interfaced with industry engineers, competition officials, and university professors
- Learned challenging lessons in both project management and system design
- Designed, tested, and built flight and payload management systems

### UNITED STATES BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR | ENGINEERING INTERN

June 2012 - August 2013 | Lakewood, CO

- Conducted research and analysis in a laboratory environment with proper testing techniques and protocols
- Operated and maintained an ion chromatograph for the determination of chemical compositions of samples
- Operated computer-controlled Instron material testing machines along with heavy machinery
- Observed, assisted, and collaborated with experienced, highly trained, professional personnel

## MEMBERSHIPS

Society of Automotive Engineers, American Institute for Aeronautics and Astronautics, American Society of Mechanical Engineers, Theta Tau Professional Engineering Fraternity, SAE Baja Competition Team, CU Hackers Educational Group