



The Rocky Mountain Section of the American Astronautical Society (AAS) is proud to host the Annual AAS Guidance, Navigation and Control Conference. As a host, we would like to provide our attendees with an easy to use event interface that will facilitate communication and encourage more interactive participation at the conference.

Background

An important aspect of hosting a conference is being able to facilitate document submission, editing, adjudication and publication for various privileges of users. Though the current AAS Rocky Mountain website supports some of these features, at the most recent conference the committee acknowledged many more features that would improve the user's overall conference experience. In addition, because many people attend conferences with the intention of socially engaging with other professionals and academics in a similar field, we would like to help facilitate this interaction as much as possible. One of the ways to accomplish this is via a highly interactive, mobile friendly website.

Project Description

Below is a summary of the tasks we expect to be completed in order to achieve the goal of improved user experience and interactions at our annual conference.

1. Improve the flexibility/functionality of the document submission interface
2. Improve the conference schedule by making it interactive AND mobile friendly
3. Improve user account home page
4. Improve website appearance and user experience

Some of the skills that will be leveraged and improved include (but are not limited to):

1. Database design
2. PHP, Javascript, HTML, css
3. User experience/interface

The tasks will be accomplished in an agile environment with a helpful product owner. Daily scrum meetings will help facilitate development with the product owner visiting the School of Mines campus once weekly for Sprint Demos. The finished project is a fully functioning website with an easy to use mobile interface. The product will be used at our conference in February 2020, with users beginning to access the website as soon as the field session is completed.

Requirements

We are looking for a team of 2-4 engineering students. Students should have an interest website development, both server and client side, and basic User Interface/Experience theory and

implementation. Because of the emphasis on an easy to use front end, the team may also include a graphic designer or a member who is passionate about graphic design.

The team will be working closely with members of the planning committee which is comprised of employees from local aerospace companies including Lockheed Martin, Ball Aerospace, Sierra Nevada and others. The conference is attended by employees from a vast majority of aerospace companies nationwide including NASA and the Department of Defense. Needless the say, the finished product will have great visibility in the Aerospace industry.