



Web Based Video Radar Course Initiative Progress Report

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Outline



- **Status of Radar Systems Engineering Course**
- **Modifications to Course to be an Senior Undergraduate Course**
- **Development of Distance Learning Capability to Radar Systems Engineering Course**
- **Collaboration with Massachusetts Bay Community College to use video portions of “Introduction to Radar Systems “ Course as part of a short courses for 2nd year students at Community Colleges**
- **Upgrade of Computer Infrastructure**
- **Summary**



Radar Systems Engineering Course Status



- **Radar Systems Engineering Video Lectures Series have been online since March 2011**
 - **Server connected Through University of New Hampshire gratis**
 - **Statistics (1st year of use) over 200K Hits, 2 Terabytes downloaded, >95% of download is video, > 100 countries, all feed back from users very positive**
 - **Lincoln Laboratory has put on its external website, notice of the course and the link to UNH url**
 - **Will be adding 3 more video lectures (SAR, ECM, Adaptive Processing) work in progress**
 - **Within a week or 2 from this date (4/7/12), WPI will be hosting course on their server, also gratis**
 - **This has been done to increase the 24/7 reliability of the site**
 - **A couple of Universities are using the video are the lectures for their radar course**



Modification of Course for Undergraduate Capability



- **Am pondering whether to delete / downgrade some of the lectures, so that the course will be a good course for seniors**
- **Present course is a 1st year grad course**



Development of Distance Learning Capability



- **Use would be for credit through a university or for a continuing education credit**
- **If for academic credit UNH or WPI**
 - Have not decided
- **If for certificate through IEEE**
 - Have not decided
- **About 2/3rd way through developing a problem set, test, and final exam question pool**
 - All questions will be multiple choice
 - There are web based software that can handle this mode for distance student performance measurement
 - “Blackboard” standard SW package used at most Universities
 - “Moogle” has same capability , is used by IEEE
- **Work on these tasks is health limited (ruptured disc from being rear-ended) Have done no work since accident 2/23/12, recovery is slow**



Massachusetts Bay Community College



- **Have developed relationship with MBCC Distance Learning Director to develop 1 credit course for community college students to be able to take modified version of the “Introduction to Radar Systems” course for them**
- **Would develop a Homework , test pool of questions**
- **They would do the rest**
- **Great course for those 2 yr grads who want to work for radar companies(ie Raytheon, BAE, etc)**
- **Got the idea from Pres. Obamas’s State of the Union Address, where he said we needed to beef up our community college systems**
- **Course would be useable at all MA community colleges via “Blackboard and be web based**



Upgrade of Computer Infrastructure

- **The computer system that I have been using for this work is about ~4 years old and am in the process of upgrading it, the new versions of the APlication SW (Camtasia Adobe illustrator, Dreamweaver etc) are a good piece of the cost**
- **Thanks for the \$2K grant.**
- **I believe that I will have no more need for any grant money from AEISS, certainly through the end of the year.**
- **After upgrade of equipment (HW and SW) complete, will only be spending \$\$\$ on O & M.**



Summary



- **Brief shows I have a lot of irons in the fire**
- **The long pole in the tent continues to be my health!**
 - **As soon as I heal I will continue the work**
 - **I expect it will be sooner rather than later**
- **Thanks again for the BOG support, Bob**
- **email rodonnell209@gmail.com or call after Noon EST 603-292-5524**