

# Protecting Your Assets: Results and Recommendations from a Student-led Security Assessment

**BRADLEY RED TEAM**

ForenSecure '17

April 27, 2017



# What is the Bradley Red Team?

- **Red teams** are independent groups that challenge an organization to improve its effectiveness
- From a security standpoint, a red team is a group of **white-hat hackers** that attack an organization's digital infrastructure
- Performs penetration testing in order to identify vulnerabilities
- The **Bradley Red Team** is comprised of students enrolled in our new Advanced Ethical Hacking course



# Who is the Bradley Red Team?

Dr. Jacob Young – Assistant Professor of MIS

Alex Alicea – MIS

Steven Kellerhals – MIS

Justin Burkhardt – MIS

Zach Sells – MIS

Kerstyn Campbell – MIS

Ethan Supler – MIS

Angelica Fanti – MIS

Alex Sutter – CIS

Samantha Johnson – MIS

Maggie Tracy – CIS

Matt Weiss – CS



# Advanced Ethical Hacking Course

- Currently listed as MIS389, but will be MIS383 going forward
- Students plan and perform a security assessment for a live-client
- Specific tasks are assigned to small teams
- Each group is responsible for the planning, execution, and reporting of their assigned tasks



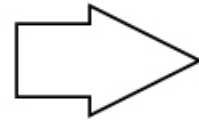
# Advanced Ethical Hacking Course

## STEP 1



### PLAN

- ✓ Questionnaire
- ✓ Identify scope
- ✓ Set schedule

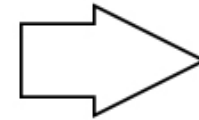


## STEP 2



### ASSESS

- ✓ Social engineering
- ✓ Physical security
- ✓ Penetration testing



## STEP 3



### REPORT

- ✓ Detailed findings
- ✓ Risk descriptions
- ✓ Recommendations



# Presentation Outline

- Information Gathering  
Angelica Fanti
- Phishing  
Maggie Tracy & Alex Sutter
- Vishing  
Alex Alicea
- Site Visit #1 – Facility Tour  
Ethan Supler
- Site Visit #2 – Technician  
Matt Weiss & Steven Kellerhals
- Technical Assessments  
Matt Weiss & Alex Sutter

# Information Gathering

**Angelica Fanti**

Senior

Management Information Systems

# Phishing

**Maggie Tracy**

Junior

Computer Information Systems

**Alex Sutter**

Senior

Computer Information Systems



# Vishing

**Alex Alicea**

Senior

Management Information Systems

# Site Visit #1 – Facility Tour

**Ethan Supler**

Senior

Management Information Systems

# Site Visit #2 – Technician

**Matt Weiss**

Senior

Computer Science

**Steven Kellerhals**

Senior

Management Information Systems

# Technical Assessments

**Matt Weiss**

Senior

Computer Science

**Alex Sutter**

Senior

Computer Information Systems